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INDEX 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:59 ON 09 JUN 2004

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4 FILES IN THE FILE LIST IN STNINDEX

TOTAL SESSION 6,46

SINCE FILE ENTRY 4.57

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FULL ESTIMATED COST

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FILE 'HOME' ENTERED AT 08:49:08 ON 09 JUN 2004

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FILE 'CAPLUS' ENTERED AT 08:54:42 ON 09 JUN 2004
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#UL44 GNGOVE

264 (ONA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?)

(CROOVE OR GROOVES)

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11334 DNAS

11347 DSDNA

11343 DNAS

11347 DSDNA

11343 DNAS

11377 DSDNA

1253 DSDNA

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FILE 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 09:04:57 ON 09 JUN 2004 355 TERMS 730 S L1 ANALYZE L2 1-730 PD :

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DISPLAY AS GRID FORMAT (N), Y, OR ?:y
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ENTER SECONDARY DISPLAY CODE OR (?):end => analyze 15 1- pd L7 ANALYZE L5 1- PD : => => s 12 and py>=1999 L4 486 L2 AND PY>=1999 => s 12 not 14 L5 244 L2 NOT L4

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'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 09:04:57 ON 09 JUN

730 S L1
ANALYZE L2 1-730 PD : 335 TERMS
446 S L2 AND PY=1999
244 S L2 NO T L4
98 DUP REM L5 (146 DUPLICATES REMOVED)
ANALYZE L5 1- PD : 81 TERMS

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option at an arrow prompt in the file. => d 16 1- fbib abs hitstr total YOU HAVE REQUESTED DATA FROM 196 ANSWERS - CONTINUE? y/(N):n (FILE 'HOME' ENTERED AT 08:49:08 ON 09 JUN 2004) Please specify how many terms you wish to display. Valid responses are: => d entire fbib abs hitstr total 'ABS' IS NOT VALID HERE => rank 16 PROCESSING COMPLETED FOR L6 98 FOCUS L6 1-788 57 179 138 138 → d rank F2 F3 F4 ENTIRE TOP n OGT n DGT n XGT n PGT n => d his Ħ

264 FILE CAPLUS

Selective placement of an aliphatic β -alanine (β) residue paired side. If a language by-side with either a pyrrole (γ) or indazole (γ) and anotatic amino acid is sound to compensate for sequence composition effects for recognition of the symptom of DAW hairpin pyrrole-indazole which contain pyrrole and indazole aromatic amino acids, as well as γ -aminotryric acid (γ) "turn" and β -alanine "springa" aliphatic amino acid residues. The estimates of γ and γ and γ are stated and γ and γ and γ and γ are regulated by the placement of paired β β , and γ and γ are regulated by the placement of paired β β , py β , and γ and γ pairings in a 12-ring hairpin (β -ro) with two py β pairings and γ -ro and γ pairing γ and γ -ring hairpin (β -ro) with two py β pairings and γ -ro by γ -ro the 0° FILE CAPLUS SEA (DWA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT? 0° FILE CAPLUS SEA (DNA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT? 264 FILE CAPLUS
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this reason, recognition of 16 base pairs represents a milestone in the development of chemical approaches to DAM recognition. We report here that the 8-ring polyanide Imby- β -Imby- β -Imby-B-DP (Im = N-methyl)timidazole. Py = N-methyl)pyrrole, β = β -Alanine, and δ 0 = dimethylaminopropylamide) specifically binds be a pair sequence 5-AlAGGACTICTITT-3 as a 3-5+1000 M -1). This result extends of Shandows 1. This result extends SMA recognition by Im-Py ***polyamides*** to 16 base pairs.

31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L6 ANSWER 4 OF 98 SCISEARCH COPYRIGHT 2004 THOMSON ISI ON STN
ACCESSION NUMBER: 130VF
ELSTORING, SPECIFIC, reversible binding ligands for transfer
TITLE: 130VF
T

COUNTRY OF AUTHOR: SOURCE:

MCGANDES & MCCEDIDES, (29 SEP 1998) VOI. 17, NO. 9.11 EDISTORES & MCCEDIDES, (29 SEP 1998) VOI. 17, NO. 9.11 EDISTORE MACCEL DEKKER INC, 270 MADISON AVE, NEW YORK, NY 10056.

LIFE ENGISS AND THE ALL AND IALL FORMATS* DOCUMENT TYPE: FILE SEGMENT: LANGUAGE: REFERENCE COUNT:

inding data are presented for the interaction with brewer's yeast tRNA(Phe) of a new structural pands, symmetrical bis-benzimidazoles. In addition specific perturbations in chemical shifts were detected by addition specific perturbations in chemical shifts were detected by protons of tRNA(Phe) when the transfer of tRNA(Phe) when the transfer with distangin. Competitive protons of tRNA(Phe) when the transfer was distangin was followed fluorescence spectroscopy.

L6 ANSWER 5 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 3
ACCESSION NAMBER: 1298:818123 CAPLUS FULLI-LER
1288:440837
TITLE: STREFCCHEMERICAL CONTROL OF THE DNA
BINDING AFFINITY, Sequence Specificity, and
Orientation Preference of Chiral Hairpin
GRODUS

AUTHOR(S): CORPORATE SOURCE:

Herman, David M.; Baird, Eldon E.; Dervan, Peter B. Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA, 31125, USA.
JOURNAL of the American Chemical Society (1998), CODEN: JACSAT; ISSN: 0002-7863
American Chemical Society
Coden: Jacsat; Occiety
Coden: PUBLISHER: DOCUMENT TYPE: SOURCE:

LANCOMENT 17PE: SOURTAIL
LANCOMENT TYPE: Engilish
LANCOMENT THE: SOURTAIL
ABSTRACT:
Three-ring polyamides containing pyrrole (Py) and imidazole (Im) amino acids covablently coupled by -raminouburyric acid (4) form six-ring haipins that recognize five-base-pair sequences in the service of the sequences of the part of the sequences of the properties of the properties of the product of the properties of the proching and affinity selective streached. Bubb shinding properties of two remantioneric polyamides were analyzed by footprinting and affinity cleaned the nationeric polyamides were analyzed by footprinting and affinity of selectives and the service of the s

reduced affinity relative to the R-enantiomer and only 5-fold sequence specificity vs. a 5-AGMT-3 reversed orientation site. These effects are modulated by acceptation of the chiral amine substituents. This study identifies structural elements which should facilitate the design of new hairpin polyamides with improved DNA binding affinity, sequence specificity, and orientational selectivity.

REFERENCE COUNT:

THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L6 ANSWER 6 OF 98 C. ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4
199:13936 CAPLUS FUIL-TEXT
129:119196
A comparison of H-pin and haipin polyamide motifs for the recognition of the minor groove of DNA Greenberg, William A.; Baird, Eldon E.; Dervan, Peter

Arnold and Mabel Beckman Lab. Chem. Synthesis.
Arnold and Mabel Beckman Lab. Chem. Cy. 91101, USA
California Inst. Technol., Pasadena, CA, 91101, USA
Chemistry—A Luropean Journal (1998), 4(5), 796-805
Wiley-URH Verlag GmbH
English

CORPORATE SOURCE:

AUTHOR(S):

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 28 REFERENCE COUNT:

LG ANSWER 7 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5
DOCUMENT NUMBER: 129:8:65290 CAPLUS FUI]—TEXT
DOCUMENT NUMBER: 129:8:65670
TITLE: An analysis of a class of DNA sequence reading molecules of DNA sequence

Abbind.

In the minor groove of double strande DNA in a parinfor groove of double strande DNA in a parially sequence—specific manner but have limited sequence discriminatory parially sequence—specific manner but have limited sequence discriminatory abilities. This suggests a need for design alternatives to create mols, with enhanced sequence specificity. In this report we present formal proofs of the theor. I mits of the DNA sequence specificity of hypothetical sequence creating mols, as a function of their base recognition properties and sequence content and length of their target sequence, we prove that mols.

containing nonspecific readers at critical positions within the mol. may have enhanced sequences specificity over mols. composed entirely of base specificity reading elements. We also determine optimal patterns of base recognition for mols. in order to optimize their tranget sequence specificity. We also examine the effect of the length of a polyamide (i.e., the number of base "wasins: at binds) on its sequence discriminatory ability and determine necessary concentration dependent constraints on the binding free energies in order for longer polyamides to have greater sequence specificity than shorrer ones. We show that unless the discriminatory ability of a ring for its preferred base is very strong, longer polyamides do mongared at the same molar concentration concentration concentration concentration.

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

LG ANSWER 8 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
1303:48606
TITLE:
1303:48606
TITLE:
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AUTHOR(S):
1403:48606
AUTHOR(S):
1403:

ANGUAGE:

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LG ANSWER 9 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 6
DOCUMENT NUMBER: 128:291573
TITLE: Recognition of the four warson-crick base pairs in the DAM minor groove by synthetic ligands
AUTHOR(5): White: Sarah: 52ewczek, Jason W.; Turner, James M.; Baird, Eldon E.; Dervan, Peter B. CORPORATE SOURCE: Div. Chem and Chem. Eng. and Beckman Tist., California Inst. Technol. Pasadem A. 1125, USA CORPORATE SOURCE: CONDON (1998) 391(6666), 468-471
DOCUMENT TYPE: DAMILISHER: DAMILISHER:

Assumed:
The design of synthetic ligands that read the information stored in the design of synthetic ligands that read the information stored in the the design obtained belix has been a long-standing goal at the interface of chemical and biol. Cell-permeable small moils. That regat predeted, DNA sequences offer a potential approach for the regulation of gene expression. Olygodosynticleotides that recognize the major groove of many standing of the major groove of problements of the major of sequences with high affinity and specificity. Although bload range of sequences with high affinity and specificity. Although olygonucleotides and their analogs have been shown to interfere with gene expression, the triple-hell analogs have been shown to interfere with gene suffers from anon-groove inding polyamides. The subsequent development of pairing rules contraining pyrrole (Py) and imidazole (Im) amino acids offers a second code to control sequence specificity. An Im/Py pair idstinguishes 6. gtorsim. C from C, gtorsim. G and both of these from A.T.T.A base daded a new "Majais." A PyPy pair specifies A.T from G. Dut does not distinguish A.T from T.A. To break this degeneracy, we have added a new aromatic amino acid, 3-hydroxypyrrole (Hp), to the repertoire to test for pairings

that discriminate A.T from T.gtorsim.a. we find that replacement of a single hydrogen atom with a hydroxy group in a HoPPy pairing regulates affinity and specificity by an order of magnitude. By incorporation of this third amino acid, hydroxyptrole-imidazole-pyrrole polyamides form four ching-pairings (Im/PP, PV/Im, Hy/Im, Hy/Im,

LG ANSWER ID OF 98 CAPUS COPYRIGHT 2004 ACS on STN
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REFERENCE COUNT:

98 CAPLUS COPYRIGHT 2004 ACS ON STANDARDE IN THE RE FORWARD 1998:545606 CAPLUS ANALIABLE IN THE RE FORWARD 1998:545606 CAPLUS ENTITED STANDARD FULLI-CAPE 11995:544606 CAPLUS FULLI-CAPE 11995:544606 CAPLUS FULLI-CAPE 11995:44609 FOR THE PARTIES OF HUMAN THE PROPERTY OF THE PARTIES OF HUMAN THE PROPERTY SAS INTRICATED TO STANDARD FOR THE PARTIES OF TH L6 ANSWER 11 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: CORPORATE SOURCE: AUTHOR(S): SOURCE:

PUBLISHER: DOCUMENT TYPE:

THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

CAPLUS COPYRIGHT 2004 ACS on STN ANSWER 12 OF 98 9

1998:523083 CAPLUS FULL-TEXX

29:273962

DAS sequence recognition in the minor groove by polyamides, using a GC-Specific reading element: a perspective from crystal log-spin (reading element: a perspective from crystal log-spin (right). The growing signal spin (right) in the distriction of signal spin (rest and pepartment of signal macromal spin (right). The growestaling of the commercation in the distriction for the commercation for the commercation in the distriction for the commercation in the distriction for the commercation for the commercation in the distriction for the commercation for the commercation for the distriction for the commercation for the commercation for the distriction for the commercation for the com ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: CORPORATE SOURCE: AUTHOR(S): SOURCE:

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AMSTRACT:

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75 THERE ARE 75 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

LG ANSWER 13 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:13959 CAPLUS ENLINEDED ENLINEDED
AUTHOR(S): Pervion of gene expression by small molecules.
AUTHOR(S): Pervion Chemistry and chemical Engineering.
DEFVAINT OFFICE TO CHEMISTRY AND CHEMISTRY COOK. 5671/AM SMSTHINGTON, D. C. COOK. 5671/AM SMSTHINGTON, D. C. COOK. 5671/AM CHEMISTRY CHEMISTRY CONTRACT
ENGLISH TYPE: CONTRACT AND CHEMISTRY CHEMISTY

CONCENT TYPE: Conference; Meeting Abstract
LANGAGE:
LANGA

43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE COUNT:

LG ANSWER 16 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
1998:1336 CAPLUS FUI]—text
DOCUMENT NUMBER: 128:85623
TITLE: And major grooves of DNA and major grooves of DNA Bruice, Thomas C.; Browne, Kenneth A.; He, Gong-Xin

L6 ANSWER 14 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8 ACCESSION NUMBER: 1998:241584 CAPLUS <u>FULL-text</u>

AdsTRACT, targeting of any protein-DNA complex by small mols. is cane-specific targeting of any protein-DNA complex by small mols. is canelaging goal at the interface of chemical and biol. Polyamides containing N-mediyl middle and specificity for DNA comparable to many naturally occurring that have an affinity and specificity for DNA comparable to many naturally occurring DNA-binding proteins. It has been shown that an eight-ring harron polyamide targeted to a specific shown that an eight-ring harron polyamide argued to a specific shown that an eight-ring harron polyamides and certain shown that an eight-ring farmor protein have been found to co-occupy the DNA helix, however to expand the number of genes that can be targeted by pyriols/finding protein shaw been found to co-occupy the DNA helix, however to each office the NA helix, however a post-reminal Argapro-Argapted to a carboxy-teeminal Argapro-Argapted to a carboxy-teeminal Argapro-Argapted to pyriols/finding contacts. Gel moility shift anal. Amon interfer with protein can selectively inhibit and middle was designed to deliver a post-reminal Argapro-Argapted to a carboxy-teeminal Argapro-Argapted to a precise location within fator carbox infinited for optimal code infinite and protein that recognizes the adjacent major in the DNA minor groove and delivers a post-parch to the DNA minor groove and delivers a post-parch and protein that recognizes the adjacent major sequence could archive to a precise location within a specific targeting. LG ANSWER IS OF 98 CAPLUS COPPRIGHT 2004 ACS ON STN DUPLICATE 9

ACCESSION NUMBER: 128:1254196
TITLE: 128:1254196
TITLE: STRUCTURAL basis for G-c recognition in the DNA minor groove and recognition in the D 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 129:24703
Inhibition of major-groove-binding proteins by principal midazole polyamidas with an Arg-Fro-Arg portrol or midazole polyamidas with an Arg-Fro-Arg posterior was march and a service with a service with a service of chemical and a service of rechnology, Passadera's Ca 11 135 USASTITUTE of rechnology, Chemistry & Biology (1998), 5(3), 119-133 CODEN: CROCKEL: 1554: 1074-5521
Journal Biology Ltd. ABSTRACE.

Small moils. that target specific DNA sequences offer a potentially general approach for the regulation of gene expression. Pyrrole-imidazole small moils. that for the regulation of gene expression. Pyrrole-imidazole "responsant between the only class of synthetic small moils, that can "responsant between the only class of synthetic small moils, that can "responsant between the only accomparable to DNA sequences with affinities and specificities solve by-side pairings proteins. Antipag proteins. Antipag proteins and both from ArJTAA "responsant between pairs. A high resolution x-ray crystal structure of a four-ring perford. The protein protein predect DNA site reveals and only as a dimer to a six-base pair predect DNA site reveals and interactions with the walls of the recognition. AUTHOR(S): CORPORATE SOURCE: REFERENCE COUNT: DOCUMENT NUMBER: TITLE: PUBLISHER: DOCUMENT TYPE: SOURCE:

University of California, USA U.S., 66 pp. CODEN: USXXAM PATENT English DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT ASSIGNEE(S): SOURCE:

PATENT NO.

APPLICATION NO. US 1994-226934 WARPAT 128:85623 US 5698674 A 19971216
PRIORITY APPLA. INFO.: WARPAT 128:856.
GRAPHIC IMAGE: KIND DATE

LG ANSWER 17 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 126:34431
TITLE: 1397:3311.66 CAPLUS F<u>0.11-Fext</u>
DOCUMENT NUMBER: 126:34431
TITLE: ninbibitors preparation of azatoxins as topoisomerase II inhibitors pommier. Yves: MacDonald, Timothy L.: Madalengoitia, Jose S. PATENT ASSIGNEE(S): 10 VITEG Strates Dept., of Health and Human Services, USA, 19 pp., CONT.-in-part of U.S. Ser. NO. 868,408, abandoned.
CODEW. USX.AM PATENT TYPE: Refile Services USX BRIGHT ACC. NUM. COUNT: 2 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

, DE, DW, ES, FR, GB, GR, IE, IT, LI, LI, LWC, NI, PT, SE 19980815 A7 1993-92334 19931014 A 199805051 B 19980602 A 199805051 US 1992-865486794 B 19931014 WARPAT 126:343431 B 1993-US9625 W 19931014 FR, GB, GR, IE, IT, LU, MC, NL, PT, SE AU 1994-53254 19931014 us 1992-965922 19921023 CA 1993-2147608 19931014 WO 1993-US9629 19931014 EP 1993-923324 19931014 APPLICATION NO. DATE US 5622960 A 19970422 CA 2147686 AA 19970423 W. AU, CA, JP W. CA, JP W KIND PATENT NO.

OTHER SOURCE(S): GRAPHIC IMAGE:

ABSTRACT:
Azaroxin and derivs. thereof are illustrative of a new class of antitumor drugs
Azaroxin and derivs. It cop 2) inhibitors. The pharmacophore
****inhibits***** the catalytic activity of the purified enzyme but does not
unwind relaxed or supercolled DAA. It is nonintercalative and has at
least two domains: a quasi-planar polycyclic ring system, which may
****bind**** between DAA base pairs, and a
pendant substituent thought to interact with the enzyme, with the DAA
pendant substituent thought to interact with the enzyme, with the DAA
numerous double strand breaks according to a cleavage pattern which differs
from those of known top 2 inhibitors. Azaroxin also is a porent
****inhibitor**** of tubulin polymerization Azaroxins I (R = F, C), Br, CN, OH, NH2,
H; R1 = anylamino, substituted alkoxy, alkylamino, protected sugar
derivative; W, M, E = H, El were prepared Thus, tryptophanol was cyclized to the
derivatives and treated with syringaldelyde dimethylacetal to give (5R,11as)-I
[R, R1, W, W1 = H] which is a top 2 inhibitor.

LG ANSWER 18 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 10
ACCESSION NUMBER: 1997-820076 CAPLUS FULL-EEL
DOCUMENT NUMBER: 1283-163076 CAPLUS FULL-EEL
TITLE: 1283-163076 CAPLUS FULL-EEL
AUTHOR(S): 1283-163076 CAPLUS FULL-EEL
CORPORATE SOURCE: 12847, Sound Heel: Martison, Angela
ELWASON, Janger E.; Park, Sound Heel: Martison, Angela
FULLSHER: 12847, SOURCE: 12

ABSTRACT:

CDAN Action of property subunit of bovine mitochondrial pyruvate dehydrognase prosphatase (POPP) has been cloned. Overlapping CDAM fragments were generated by the polymerase chain reaction from bovine poly overlapping CDAM fragments and from CDAM synthesized from bovine poly(A)+ RAM and total manner the complete CDAM (2885 base pairs) contains

RAM.* The complete CDAM (2885 base pairs) contains

an open reading frame of 2534 mcleotides encoding a putative presequence of 31 amino acid residues and a mature protein of 847 residues with a calculated Mr of 59,805. This value is in agreement with the Mol. mass of harsive Appr 59,605. This value is in agreement with the Mol. mass of harsive Appr 69,805. This value is in agreement with the Mol. mass of harsive Appr 105,800.200 ba) determined by matrix-assisted laser desorption-ionization mass spectrometry. The mature from of Appr was expressed in Eschericia coli as a maltose-binding protein fusion, and the recombinant protein was purified to mear homogeneity. It exhibited properties characteristic of the native Popr, including recognition by antibodies against native bopin and this inhibitory effect by the polyamine. The Mass serversal of this inhibitory effect by the polyamine spermine A BASST search of protein data basss revealed that Popr is distantly related to the mitochondial flavoprotein dimethylglycine dehydrogenase, which functions in choline degradation

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

LG ANSWER 19 OF 98 SCISEARCH COPYRIGHT 2004 THOMSON ISI ON STN
ACCESSION NUMBER: 97.859106 SCISEARCH <u>Full-text</u>
THE GENUINE ARTICLE: YQZ73
A novel peptide nucleic acid monomer for recognition of

98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 11
1997:216523
1997:216523
WHE Characterisation of Hairpin Polyamide Complexes
Lamanie de Clairac. Refiel Pelacz; ceierstanger;
Barrhard H.; WHESCH, Willan; Dervan, Peter 8.; Wemmer,
Daylde H.; WHESCH, Willan; Dervan, Peter 8.; Wemmer,
Daylde H.; Wesch, Chamistry, University of California,
Berfelley, CA, 94720, USA
Journal of the American Chemical Society (1997),
CODEN: JACSAT; ISSN: 0002-7863
American Chemical Society
Journal
Journal thymine in triple-helix structures
Eldrup As Dahl Oi, Nielsen PE (Reprint)
S. DK-200-WAREN, PANNH INST. DEFT STOCKEN B, BLEGDAMSVED
ONLY COPENHAGEN, PANNH INST. DEPT STOCKEN B, BLEGDAMSVED
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OF DEWARK; UNIV COPENHAGEN, DEPT GREW, CTR BIOWOL
RECOGNIT, DK-2100 COPENHAGEN, DEPT GREWARK
OFFINANT OF THE AMERICAN CHEMICAL SOCIETY, (12 NOV 1997)
VOI. 139, No. 45, PD. 11116-11117,
RUBHISHER: AMER CHEMICAL SOC. 1155 16TH ST, NM,
MASHIMOTON, DC 20036.
ISSN: 0002-7063.
ISSN: 0002-7063.
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LG ANSWER 21 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 12
1997:2357 CAPLUS FUI)—FEXT
DOCUMENT NAMBER: 127.216506
TITLE: Recognition of Sevent Base Paris Sequences in the Minor Groove of DNA by Ten-Ring Pyrrole-Imidazole Polyamid Hairpins
AUTHOR(S): Turner, James M.; Baird, Eldon E.; Dervan, Peter B. Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA, 30URCE: Journal of the American Chemical Society (1997), DOCUMENT TYGE.

PUBLISHER: SOURCE STATE OF THE ST

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

Abstract:

***More upper limit of binding site size is defined for the hairpin

Polyamide--Uwa motif; "en-ing hairpin polyamides

recognition of seven beare pair (tip) sequences in the

recognition of seven of DAN. The DAN.

Polyamide properties of two polyamides, Imbypyppy-y
Imbypypy-y-bo, and InImpypypy-Y-Impypypy-g-power analyzed

by footprinting and affinity Cleavage on a DAN fragment containing the

resp. match sites 5'-IGTAACA-3' and 5'-IGGAACA-3' quant. footprint titns.

demonstrate that Impypypy-y-Impypypy-p-Do binds the

7-bp match sequence S'-TGTAACA-3' with an equilibrium association constant (ka) of ka = 1.2 + 100 M-1 and 18-fold specificity vs. the single base "**patir*** mismatch sequence S'-TGGAACA-3'. ImimptyPPy-Y-ImPyPyPy-P-pp by a single amino acid substitution and binds its match S'-TGGAACA-3' site with Ka = 3.6 + 109 M-1 and 300-fold specificity vs. its corresponding single "**patir mismatch sequence S'-TGTAACA-3'. Ten-ring hairpin expanses.** patir mismatch sequence S'-TGTAACA-3'. Ten-ring hairpin polyandes. These binding affinities similar to those of eight-ring hairpin polyandes. These sections similar to those of eight-ring hairpin polyandes. These beyond four rings, and logous to the effect subunits. Therefore, recognition of seven base "**patir*** subunits increases beyond four rings, and logous to the "**patir*** an upper limit to the effective targetable site size of the hairpin ***patir***.

LG ANSWER 22 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 13
ACCESSION NUMBER: 1997;500223 CAPLUS FQ1]—LEXT
DOCUMENT NUMBER: 127:158066
TITLE: 5-GCC-3', and 5'-GCC-3', and 5'-GCC-3', sequences in the minor groove of DNA by eight-ring halpith polyamides
AUTHOR(S): 949[F-7] Abrithin polyamides
AUTHOR(S): 9504[F-7] Abrithin polyamides
CORPORATE SOURCE: California Institute of Technology, Pásadena, CA, 91125, USA
SOURCE: 1004[T-1] Abrithin PASATISIN: 0002-7863
AMELISHER: AMERICAN CHARLES SOCIETY (1997), COLDER'S 1505[T-1] AMERICAN CHARLES SOCIETY (1997), CANGAMENT TYPE: English
FORMATHER CHARLES SOCIETY (1997)

Assimilation polyamides which differ only by the linear arrangement of pyrrole (Py) and inflated containing 4 contiguous G.C. "begas". Pairs. The resp. DAA binding 4 contiguous G.C. "begas". Pairs. The resp. DAA binding 4 contiguous G.C. "begas". Pairs. The resp. DAA binding 4 contiguous G.C. "begas". Pairs. The resp. DAA binding 4 contiguous G.C. "begas". Pairs. The resp. The pairs of a polyamidate, I manaparany-I maparany-I map

ImPyImPy--ImPyImPy-B-Dp and ImImImIm-r-PyPyPy-B-Dp recognize their resp. 5-Toccock-3 and 5-Toccock-1 and their treps 5-Toccock-1 and 5-Toccock-3 and string their treps 5-Toccock-1 and their treps 5-Toccock-1 and their treps to ImImPyPy-1-Dp, but again with high specificity relative to ImImPyPy-1-ImImPyPy-B-Dp, but again with high specificity with regard to mismatch sites. These results expand the ***Poplay** sequence repertoire targeted by pyrrole-imidazole with their further second-generation polyamide design for DNA recognition.

L6 ANSWER 23 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 14 ACCESSION NUMBER: 1997:356731 CAPLUS FULL-REXT DOCUMENT NUMBER: 1277.7746 FOR FORMATION OF ACCOUNT TITLE.

Estimation of the DNA sequence discriminatory ability of haipini-liked lexitropsins where Women. L.; Landaw, Elliot M.; Dickerson, Richard E.; Goodsell, David S. W. Elliot M.; Dickerson, Richard Dep. Biomachematics and the Mol. Biol. Inst., Univ. California, us angeles, CA. 90024. UST. List., Univ. Proceedings of the National Academy of Sciences of the United States of America (1997), 94(11), 5634-5639 CODE: PNASAG; ISSN: 0027-8424
Mariumal Academy of Sciences
Dournal Academy of Sciences CORPORATE SOURCE: AUTHOR(S):

PUBLISHER: DOCUMENT TYPE:

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 The model was applied to the design of targeted polyamides, evaluating the ability of the proposed polyamides to bind to a DMA sequence of interest while minimizing binding to the remaining DMA sequences. CESSTON NUMBER: 1997 CAPLUS. COPYRIGHT 2004 ACS on STN DUPLICATE 15

MCCESSTON NUMBER: 1967-20159 CAPLUS ENTI-LEXEL

DOCUMENT NUMBER: 1967-20159 CAPLUS ENTI-LEXEL

TITLE: MORE CARTO SIMULATION SIMULATION STUDY OF DAM POlyelectrolyte

FORDERTIES: CARDONATE SOURCE: 10.5100-2015 P. NOTAGENSIGED LEARS

COMPONATE SOURCE: DIVIDING TO PRINCIPLY STOCKHOLM. S. 106 91. Swed

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LG ANSWER 25 DF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 16
ACCESSION NUMBER: 1289:7.245308 CAPLUS EUI]—CERT
TITLE: 128:3.12222
AUTHOR(S): 126:3.12222
CANTHOR(S): 126:3.

ACCESSION NAMER: 1997-74957 CAPUS FULL-CEAT DANNER: 18:9909. APPLY SELECTION NAMER: 18:9909. APPLY SELECTION NAMER: 18:9909. APPLY SELECTION NAMER: A PAYTONE-INITIALS: A PAYTONE-INITIALS AND SELECTION OF ANTINE SELECTION OF AN

Synthesis, California Institute of Technology, Pasadera, C., 91101, 169

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REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORWAT

LG ANSWER 27 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 18

ACCESSION NUMBER: 1399:385345 CAPLUS EUIL-TEXT
DOCUMENT NUMBER: 1399:385345 CAPLUS EUIL-TEXT
DOCUMENT NUMBER: 1399:385345 CAPLUS EUIL-TEXT
TITLE: NUMBER: 1200 STR. 1200 S

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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LG ANSWER 31 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 22
DOCUMENT NUMBER: 1127:18163
TITLE: 1177:18163
TITLE: DAY 533924 CAPAUS EMILITER
TONGES SINGLE COMPLEX FOR THE TOWN STREET STRE

rational design of mols. with specific biol. activities. Winor—
and N-merbylinding Dolyanides concarning by methylindiazole
and N-merbylindiazole
and N-merbylindiazole
by Dana biologica anno acids achieve affinities and specificities comparable
to DANA binding proveries. The synthetic ollosaccharide
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synthem and proveries. The synthetic ollosaccharide
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synthetic and a proveries of growe of the referring distinct target
specificities based on a one-fringe-three-nucleotide code have been developed
secrificities by the other hand. Day beeith of a squence-specific to the bending ligands
secrificities of biol. In process, squence-specific DAN bending ligands
associated to process. Squence-specific DAN bending ligands
associated and process and perfect of the major man genome
would be useful roots in mail. Biol. and potentially in human medicine.

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Walter will kopka M.L.; Goodsell D.S. Riology, Scripps

Des. Goodsell, Department of Molecular Biology, Scripps

Breath Institute, San Disgo, CA 92037, United States

Description, CA 92037, United S Assimute: gpecific polyamides that bind in the minor antibiotics, as grounder-specific polyamides that bind in the minor of DMA are attractive condidates for antibiotics, this paper reviews tancer chemotheraperitie, and transcriptional antagonists. This paper reviews me progress of structure—based design of minor-growner progress of structure—based design of minor-growner progress of structure of metropsin with on the effective linked polyamides currently of netropsin under study. At the effective linked polyamides perficitly is also reviewed, under study, at the order program of perficitly a six of targetting a given introducing methods to determine the optimal strategies for targetting a given introducing and agrowed of competing sequences. AUTHOR: CORPORATE SOURCE: LANGUAGE: SUMMARY LANGUAGE: ABSTRACT: COUNTRY: DOCUMENT TYPE: FILE SEGMENT: SOURCE:

LG ANSWER 34 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1937-488700 CAPLUS EN]—rect
Subnannowia recognition of the minor groove of DNA by
TITLE: Subnannowia recognition of the minor groove of DNA by
AUTHON(S): Turner, James M.; Baird, Eldon E.; Dervan, Peter B.
Turner, James M.; Baird, Eldon E.; Dervan, Peter B.
Turner, James M.; Baird, Eldon E.; Dervan, Peter B.
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Turner, James M.; Baird, Eldon E.; Dervan, Peter B.
Turner, James M.; Baird, Peter B.
Turner, James

DOCUMENT TYPE: Conference; Mething Abstract
LANGAGE:
LANGAGE:
Small mols. that specifically bind at subnanomolar concentration to any
predect. DAM sequence would be useful tools in mol. biol. and
predect. DAM sequence specificity of
predect. DAM sequence specificity of
predect and accorded animo accids can be rationally controlled by simple
pyriole and imidazole animo accids can be rationally controlled by simple
pyriole and imidazole animo accids can be rationally controlled by simple
pyriole are expensive we will report a ten-ring hairing roles. We will report a ten-ring hairing polyamide motif for
subnanomolar recognition of 7 base pair (bp) sites. A amide motif for
recognition of 7 base pair (bp) sites.

LG ANSWER 35 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STRA
TITLE:
TITLE:
RECOGNITION OF G.C.-Fich Sequences in the minor groove
FOR DAY.

AUTHOR(S):
Swalley. Susanne E.; Baird, Eldon E.; Dervan,
Swalley. Susanne E.; Baird, Eldon E.; Dervan,
Swalley. Susanne E.; Baird, Eldon E.; Dervan,
Source:
Source:
Source:
Author Source:
Book of Abstracts, 214th Acs National Meeting, Las
Chemical Society: Washington, D. C.
DOCUMENT TYPE:
Emplish

Conference; Weeting Abstract
Language:
Langua DOCUMENT TYPE: LANGUAGE: ABSTRACT:

ABSINACT: Objamides containing N-methylpyrrole and N-methylimidazole amino acids are synthetic ligands that have an affinity and specificity for DMA comparable to naturally occurring DMA-Dinading proteins.

Comparable to naturally occurring DMA-Dinading proteins.

Syncial mid acid on hybrides have recently been shown to be cell permeable and to hybride transcription of specific genes, service the scope and limitations of this approach for probating the proposal proposal probation of specifical proposal proposal probations. We show the second risk capals of specifically principe G. C-rich six

***Spokenia graduates and the suppression of specifical probabilities.

CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 25
11937.24632
126:32692
Crystal structures of A-DyA duplexes
Wahl, warkus C.; Sundaralingam, Muttaiya
Lab. 810logical Macromoleuclar Structure, ohio state L6 ANSWER 36 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: AUTHOR(S): CORPORATE SOURCE:

ABSTRACT, with 97 refs. All crystal structures of A-DwA duplexes stribit a typical crystal packing, with the termin of one moi. abutting the shallow growes of symmetry related neighbors, while all other forms (B, 2, and arrangement leads to the formation of shallow growes base mittiples that have inside the structure of DwA in compacted states. The A-DwA arrangement leads to the formation of shallow growes base mittiples that have interest pactured in the structure of DwA in compacted states. The control of the saring accordance of the saring accordance of the saring accordance of the saring accordance of the base sequence on the structures of Optimize the A-the infinite of the base sequence on the structures, where effort all united is a seen that the right melectide principle applies to the oligomers between different double-helial conformers (A, B. and Z-form). Overall, it is seen that the right melectide principle applies to the oligomers between different double-helial conformers (A, B. and Z-form). Overall, it fagments. Bessides the structures of the naked Owks, their longomers between different double-helial conformers (A, B. and Z-form). Overall, it fagments with mater the right melectide principle applies to the oligomers on side accordance of the base sequence double-helial conformers (A, B. and Z-form). Overall, it fagments with mater the right melectide principle applies to the oligomeric fragments. Bessides the structures of the naked Owks, their involving both the growes and the backbone, which are different from those of considerable attention. There are conserved patterns in the hydration, B-DwA or Z-DwA. overall, A-DwA seems to be more commissingly to either of the growes or to the phosphate groups, it mixed find the growes or to the phosphate groups of the backbone, or exhibit a mixed find mater of the growes or to the phosphate groups of the backbone, or exhibit a mixed find by are the phosphate groups. The only and phosphate sore the work of the growes or to the phosphate groups of the phosp Univ., Columbus, OH. 43210-1002, USA Biopolymers (1997), 44(1), 45-63 CODEW: BIPWAA; ISSN: 0006-3525 Wiley wiley Journal; General Review English

Entered STN: 8 Oct 1997 Last Updated on STN: 8 Oct 1997 LANGUAGE: ENTRY DATE:

payagning of the property of t L6 ANSWER 38 OF 98 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN ACCESSION NUMBER: 1997-429012 BIOSIS Full-text
DOCUMENT NUMBER: REV199799728218
TITLE:
Recognition of 6,C-rich sequences in the minor groove of AUTHOR(S): CORPORATE SOURCE: SOURCE:

Entered STN: 8 Oct 1997 Last Updated on STN: 21 Nov 1997 DOCUMENT TYPE:

L6 ANSWER 39 OF 98 CAPLUS COPYRIGHT 2004 ACS ON 5TN DUPLICATE 26 ACCESSION NUMBER: 1996:498677 CAPLUS <u>Full-text</u>

DOCLOMENT NUMBER: 115;188569
ITTLE: the mino grove of DM, watasi delfand, craig A.; sequence-specific enthalpic discrimination statements of the mino grove of DM, watasi delfand, craig A.; law, scale and service of DM, watasi delfand, craig A.; law, scale and service of DM, watasi delfand, craig A.; law, scale and service of DM, watasi delfand, scale and several services of the proceedings of the micrology of Sciences of the conceedings of the state of Memicrology of Sciences of the UNICES Trace of Memicrology of Sciences of the NOGEN PARSAS; ISSN 0022-8424 and Sciences of the Maippin polyamides are synthetic; ligands for sequence-specific recognition and the among crower of double-helical parametries enhibited by a six-ring haippin polyamide, in a statement of the DMA-binding properties enhibited by a six-ring haippin polyamide, in a statement of the DMA-binding properties enhibited by a six-ring haippin polyamide, in a statement of the minor sequence specificity be definited by in sequence specificity behicked by in sequence specificity behicked by in symphymal entropy and at a a 12 of 1007-100 and the structure properties of the heterodineric complex of Pytypy and insight into the minor growe of DWA provide complex of Pytypy and insight into the minor growe of DWA provide.

LG ANSWER 40 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 27
DOCUMENT NUMBER: 125:188558
TITLE: 125:188558
TITLE: NIMBER: 125:188558
TITLE: NIMBER: 125:188558
AUTHOR (S): 5847 (A.P. OGG(A.T) 2-3' Sequence in the NIMBER: 125:188558
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ONORENT TYPE: American Chemical Society
DOCAMENT TYPE: Journal
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L6 ANSWER 41 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 28
ACCESSION NUMBER: 1256.1219 CAPLUS EUI]—TEAX
DOCUMER: 125.160311
TITLE:
TITLE:
POLYMER: polymeratide-DNA motif end E:1 pyrrole-imidazole
polymeratide-DNA motif end E:1 pervan, Peter B.
CORFORATE SOURCE: Chem. Eng., California Inst. Technol., Pasadena, CA, 91125, USA

PUBLISHER:

COURSE: Proceedings of the National Academy of Sciences of the Publisher:

COURSE: PARSAGE; 155N: 0027-8245

PUBLISHER: COORER: PARSAGE; 155N: 0027-8245

Mational Academy of Sciences

DOCUMENT TYPE: Busing Manages of the National Academy of Sciences

ABSTRACT:

Polyamides containing M-methylimidazole (Im) and N-methylpyrrole (Py) amino acids can be combined in arritagnalled is late—by-side dimeric complexes for significant or in properties of the stage of the properties of the prop

L6 ANSWER 43 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 29
ACCESSION NUMBER: 1995/354122 CAPLUS FULL-LEXI
DOCUMENT NUMBER: 1995/354122 CAPLUS FULL-LEXI
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DOCUMENT NUMBER: 1996/354122 CAPLUS FULL-LEXI
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The binding data for Impypy—Pypypy-Dp, which has been shown been shown between stronger and the Imp Imp in a haripin conformation, indicates that y-aminobutynic acid does not effectively link polyamide binding subunits in an extended conformation. These results expand the binding site size angetable with pyrofe-indicate polyamides and provide structural elements that will facilitate the design of new polyamides stargeted to other DAA sequences.

LG ANSWER 44 OF 98 CAPLUS COPPRIGHT 2004 ACS ON STN DUPLICATE 30
ACCESSION NUMBER: 1956:35423 CAPLUS EUI]—EAST
TITLE: RECOGNITION OF 5'-(A,T)GG(A,T)2-3' Sequences in the Parks, Withelle E. Barid, Eldon E.; Dervan, Peter B. DIVISION OF CHAMISTAY and Chemical Reginering. DIVISION OF THE AMERICAL SOURCE: 105' OF THE AMERICAL SOURCE AMERICAL SOURCES AMERICAN SOU PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGAMCA
ASSTRACT
A series of four hairpin pyrrole-inidazole polyamides,

A series or four interprint point of the "initiation is properties",

Interpret PopyPy-16-Dp, PyPyPy-TallarPy-16-Dp, (Imediately and Active PyPyPy-16-Dp, PyPyPyPy-TallarPy-16-Dp, (Imediately PyPyPy-TallarPy-16-Dp, Imediately PyPyPy-TallarPy-16-Dp, Imediately PyPyPy-TallarPy-16-Dp, Imediately Imply Imediately Imediately Imply Im

LG ANSWER 45 OF 98 CAPLUS COPPARIGHT 2004 ACS ON STN DUPLICATE 31
ACCESSION NUMBER: 1596/534,121 CAPLUS FUIT—EXEL
TOTHER NUMBER: 125:316/7 of the Hairpin Polyamide Design for portions of the Winor Groove of DNA
AUTHOR(S): Price Secondition of the Winor Groove of DNA
AUTHOR(S): Price Secondition of the Winor Groove of DNA
AUTHOR(S): Price Secondition of the Winor Groove of DNA
AUTHOR(S): Price Secondition of the Winor Groove of DNA
AUTHOR(S): Price Secondition of Chemistry and Chemical Engineering, OSURCE: 10 Price Secondition of Chemistry and Chemical Engineering, 127, 128, 127, 128
AUTHOR OF CHEMICAL SECONDITION OF CHEMIC

PUBLISHER:

DOCUMENT TYPE:

JOURNAL CHARTICAL CHEMICAL SOCIETY

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L6 ANSWER 46 OF 98 CAPLUS COPYRIGHT 2004 ACS on STW DUPLICATE 32 CACESSION NUMBER: 1296:154120 CAPLUS FUIT-TEXT DOCUMENT NUMBER: 125:168615 Solid Phase Synthesis of Polyamides Containing

AdsTRACT:

AdsTRACT:

If wark pulsed field gradient self-diffusion method has been used to study the self-diffusion of the polyamine spermidine and the polyamine and one of the polyamine spermidine. The polyamine completely N-methylated spermidine). The self-diffusion coefficient, Do was measured in solins. of sail thywas base services are self-diffusion matclesopened on the concentration for judgments of 120 base prepared from nucleosome core particles (with an average length of 120 base prepared from nucleosome core particles (with an average length of 120 base prepared from nucleosome core particles (with an average length of 120 base prepared from nucleosome core particles (with an average length of 120 base prepared from nucleosome coefficient for free polyamine to a sociation of served of the diffusion quotient, D/Do (Merre DO) is the diffusion coefficient for free polyamine on the measured self-diffusion coefficient for free polyamine of the titures, indicating similar diffusion coefficient with channels are considerable salt effect on the polyamine-DMA association who norable differences in one polyamine-DMA association and lithium ions behave similarly in their interactions with DMA. In titration express of freezing the polyamine association is less effective than in the case of NaDMA, peculs of competition from magnesium selection than the polyamine association is less effective than in the case of NaDMA, peculs of competition from magnesium selectorated; to DMA. Comparisons with calcus of competition from magnesium selectorated; the interactions with polyamine association is less effective than the polyamine association rependence and that the interactions with no specific sites on the DMA mol. amino Abbindaries synthesis of sequence specific DNA binding The solid phase synthesis of sequence specific DNA binding acids are described. Two monower building blocks, Boc-Py-OBL ester and Boc-Im acids is described. Two monower building blocks, Boc-Py-OBL ester and Boc-Im acid, are prepared in a 50 g scale without column chromatog. Using com. available Boc-Balanine-Pan resin, cycling protocols were optimized to afford high stepwise coupling yields (59%). Deprotection by aminolysis afford by the Impure and complexity of minor groove methodol. Increases both the number and complexity of minor groove methodol. The solid phase methodol in the solid phase which can be synthesized and analyzed with regard to DNA binding affinity and sequence specificity. The solid phase synthesis of a representative eight-residue polyamide is reported. LG ANSWER 47 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 33
ACCESSION NUMBER: 1296:344880 CAPLUS <u>Full-Text</u>
DOCAMENT NUMBER: 125:28430
TITLE: TRITLE: DAS STUDIES FULL STREET OF THE STREET OF T Imidazole and pyrrole Amino, Acids
Eldom E.; Dervan, Peter B.
Division of Chemistry and Chemical Engineering,
Division and Institute of Technology, Pasadena, CA,
20175 of 10 of the American Chemical Society (1996),
108(26), 6141-6146,
CODDY: JACSAT, 155N: 0002-7863
American Chemical Society
Foundal
Figlish AUTHOR(S): CORPORATE SOURCE: PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT: SOURCE:

22.133003 2.133003 and 2.23300 and 2.23300 and 2.23300 and 2.22900 L6 ANSWER 48 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1396-473406 CAPLUS FUIL-TEXT TITLE: CAPLUS FUIL-TEXT TIT AUTHOR(S): CORPORATE SOURCE: SOURCE:

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nanomolar concentration

and potentially in human amedicine, simple rules have been developed to control rationally that squarements predictive of simple rules have been developed to control ambient properties. Rollowing the subject of the s

LG ANSWER 52 OF 98 SCISEARCH COPYRIGHT 2004 THOMSON ISI ON STN
ACCESSION NUMBER: 95.273882 OS SCISEARCH FULL-EXX
THE GENTIME ARTICLE. UA092
TITLE: UA092
TITLE: UA092
AUTHOR: ANNE SELF-DIFFUSION STOUY OF THE INTERACTIONS BETWEEN
SPERMIDINE AND OLIZOROUCLEOTIDES
AUTHOR: AND OLIZOROUCLEOTIDES
CORPORATE SOURCE: UNIV STOCKHOLM, DIV PHYS CHEM, S-10691
STOCKHOLM, SWEDEN; UNIV NEBRASKA, DEPT CHEM, LINCOLN, NE, SWEDEN; USA
SOURCE: SWEDEN; USA
SOURCE: ISSN: 0006-3525.
ISSN: 0006-3525.
THE INTERACTION STOUR STOUR STOUR STOUR STOUR STOUR SWEDEN; USA
SOURCE: TSSN: 0006-3525.

POBLISHER: CLOURN'S MRLLEF': ISSN: U908-U6590

CLOURN'S MRLLEF': ISSN: U908-U6590

CLOURN'S MRLLEF': ISSN: U908-U6590

LOURN'S MARCH TYPE: Dournal

LOURN'S MARCH TYPE: English

ASTRACT:

The effect of the polyamide ImpyPy-Dp (Im = N-methylimidazole-2
CATDOXAMIGH PRINCE-2-CANDAMIGH and Dp

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1996/495067
125:16.376 CAPLUS <u>Full-text</u>
125:16.377 CAPLUS <u>Full-text</u>
125:16.377 CAPLUS <u>Full-text</u>
Recognition of DNA by designed figands at subnanomolar concentrations.

On anger, John W.; Baird, Eldon E.; Dervan, Peter B. DIV. Chem. Chem. 1917; California Inst. Technol., Nasadena, Co., 97:12960, California Inst. Technol., ONE CHAMON STREET, California Inst. Technol., Nasadena, Co., 97:12960, 382:16591), 559-561
MAGNILLA MAGNIPATION. LG ANSWER 49 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 34

ACCESSION NUMBER: 125:161351
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125:1 L6 ANSWER 51 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: PUBLISHER: DOCUMENT TYPE:

AbsiNAL.

Self-diffusion coefficients have been determined by pulsed field gradient nmr methods for spermidine in solutions of the oligonucleotides (GGC)(4) and GGAATICC). The self-diffusion behavior of spermidine in solution of GGC)(4) is very similar to that observed previously for methylspermidine (completel) is very similar to that observed previously for methylspermidine (completel) is solven when the self-diffusion behaviors of spermidine in solutions of GGCAATICC) are also quite similar. Indicating that there is no significant influence on self-diffusion of oligonucleotide base composition. Eurthermore, self-diffusion coefficients of influential oligonucleotide of GGC)(8) similar small dependence on oilgonucleotide concentration, and no measurable dependence on solvium ion or magnesium ion concentration.

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

LIFE ENGLISH 35

FILE SEGMENT: LANGUAGE: REFERENCE COUNT:

ABSTRACT:

DOCUMENT TYPE: FILE SEGMENT:

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ARSTRACT:
Intered-ing polyamides containing N-methylimidazole and N-methylpyrrole and main acids bind sequence-specifically to double-helical DNA and a side-by-stele complexes in the minor grove.

***Moly and intered by the containing the minor grove.

***Polyamide**** To its expected DNA target site, and experior-imidazole by forming side-by-stele complexes in the minor grove.

***Polyamide**** To its expected DNA target site, and experiences have been similarly and previously that two fine-ring sidumits could be lighter size.

***Polyamide*** The bolyamide and phant a merior signification of the target sequences have been properly in the properties of the target sequence. The same seasof, increasing the long of the target sequence. We seem to the determine whether different paper of linkers that would be used in a single mol. to generate a mino-tring polyamide mol. to generate a minor and raminobutyric acid and shown to specific DNA sequences. A mine-ring polyamide mol. The amino acids that a subminobutyric acid and p-alamine optimally link the mino acids than a designated nine base pair site at subminobutyric acid and p-alamine optimally link the mino acids than a proven and acid, has been synthesized and shown to three-ring pyrrole-indiazole polyamide. Site and a support of the second intermined to specific DNA sequences and proven the submitted nine base pair and a concentration. The amino acids that site at subminobutyric acid and p-alamine optimally link the second of the second site and a support of the second site and a supparation of the second site and proven site and submitted nine base pair and a concentration of the second site and a submitted nine and a submitted nine and a submitted nine base pair and a concentration of site and become and a submitted nine and a submitted nine and a submitted nine base site with very high affinity.
LG ANSWER 53 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 37

ACCESSION NUMBER: 1251-106335 FG APLUS FULLI-CEXT

1251-106335 FG APLUS FULLI-CEXT

1251-106335 FG APLUS FULLI-CEXT

ATTLE: Excended harpin polyamide morif for sequence-specific recognition in the minor groove of DNA

COMPONATE SOURCE: Arrio d and Mabel Beckman Lab. Grem synchhesis, connect: Grant Form of April 125, USA

SOURCE: Connective Rolling (1996) 3157, 369-377

CONFINCE BOOGNER 1009Y (1996) 3157, 369-377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
ABSTRACT:
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L6 ANSWER 54 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 38 ACCESSION NUMBER: 1997:13785 CAPLUS <u>Full-text</u>

PUBLISHER: Macmillan Magazines
DOCHMENT TYPE: Journal
LINGUAGE: English
ABSTRACT: that specifically bind with high affinity to any predetd.
CDAM* sequence in the human genome would be useful tools in mol. biol.

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

Selective DAA binding of (N-alky) amine)-substituted mides and dimides to GF-critin DAA in DAA in Commission of GF-critin DAA in DAA in Commission of CF-critin DAA in Chem. Inc., Mo. Biophysics, Florida State Univ., Pal hansse, FL., 3306-2006, USA, Journal of Biomolecular Structure & Dynamics (1996), 44(3), 31-339 and Structure & Dynamics (1996), Adenine Press. AUTHOR(S): CORPORATE SOURCE: DOCUMENT NUMBER: TITLE: SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

ABSTRACT:

Alkylamine-substituted naphthalene imides and diimides bind ****DMA**** by intercalation and have applications as anticancer
agents. The unique structures of these imides in which two adjacent carbonyl countries of these imides in which two adjacent carbonyl sequence-selective interactions between the interact crima system allow the possibility of sequence-selective interactions between the interaction chromophore and guanine amino groups situated in the DMA minor and chromophore and guanine amino groups situated in the DMA minor and any and any and any and any and any and any and any any and any any and any any and any and any any and

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L6 ANSWER 55 OF 98 G. ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

98 CAPLUS COPYRIGHT 2004 ACS ON STUTULE IN THE RE FORM, 124:35384 CAPLUS ENTITEXE 124:35384 CAPLUS ENTITEXE 124:35384 CAPLUS ENTITEXE 125:25384 CAPLUS ENTITEXE TO FERRITION STUTULE OF GESTIONE DINDING MODEULES GESTIONE REINHARD TO BANDE H; MINISTON, MINISTON, DAVIOLE STUTULES STORE CORPORATE SOURCE: AUTHOR(S):

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT: SOURCE:

AASTRACT: A linked, imazole/pyrrole minor-groove ligand has been shown to bind sequence specifically to a 13 base-pair target sequence in a mixed 1:1/2:1 mode.

98 CAPLUS, COPYRIGHT 2004 ACS on STN DUPLICATE 39
1106.28138
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CAPLUS LILLILLEXX
1106.28138
THER CATORIA BETWEEN 16F-handed Z-DNA and polyamine —
3. The crystal structure of Fthe d(CG)3 and the complex in Boom, Jacques H. 18.Ch, van der March (515; Van Boom, Jacques H. 18.Ch, van der March (515; Van Boom, Jacques H. 18.Ch, van der March (515; Van Boom, Jacques H. 18.Ch, van March (515; Van Boom, Jacques H. 18.Ch, van March (515; Van March (5 L6 ANSWER 56 OF 98 G ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER:
Cloud County County

0.540.540,5 mm3, x-ray intensity data were collected up to 1.0

the resolution monothermine most and a magnesium carrion were bound to the resolution monothermine mine and a magnesium carrion metric produce the left-handed objected the conformation and two themsopermine moils, and a magnesium carrion neutral model and magnesium carrion feathermines. The model and thermosphermine was the different from those of word promptes with the different from those of word promptes with the model and spermine. This is the firstness as a found to the different from the object of the model and the model model and the model model and the model model and the model and the model model and the model and the model model and found between the dic(G)3 mol. and the magnesium carrion.

LG ANSWER 57 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 40
DACCHESION NUMBER: 1996:41436 CAPLUS FULL-text
DACHESION NUMBER: 125:104281
TITLE: 125:104281
TITLE: 125:104281
AUTHOR(S): alkylamines and their bonane derivatives alkylamines and their bonane derivatives alkylamines and their bonane products, school physmetric partial, tris H.: TSE e. Elaine V.: Muhamand, Rosallah A.
DIV Wedicinal Chem. Natural Products, school physmetric physmetric

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

The all thylatines and their related boron derivs. demonstrated potent cytotoxicity against the growth of murine and human tissue culturated cells. These agents did not necessarily require the boron atom to possess potent cytotoxic action in certain tumor lines. Their ability to suppress tumor cell growth was based on their inhibition of UNA and protein synthesis was reduced because purine synthesis tumor cell synthesis was reduced because purine synthesis. In addition ribonucleoride reductase and nucleoside kinase artivities were reduced by the agents which would account for the reduced divines activities were reduced by the agents which would account for the reduced divine pools. The DNA "WTDMA"* base pairs, only some of the adgents can drug between "****TDMA** regamentation with reduced DNA viscosity. These effects would contribute to overall cell death afforded by the agents.

LG ANSWER S8 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 41
ACCESSION NUMBER: 1995:89260 CAPLUS FUITLE: 124:8499
TITLE: 0,Cylic polyamides for recognition in the minor groove of DNA
TITLE: 0,Cylic polyamides for recognition in the minor groove of DNA
TITLE: 0,Cylic polyamides for recognition in the minor groove of DNA
TITLE: 0,Cylic polyamides for recognition in the minor groove of DNA
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TITLE: 0,Cylic polyamides

Second 1st that specifically bind with high affinity to any second and a second and posterially in the human genome would be useful tools in moi. biold. and posterially a large the sequence second second and posterially a large the sequence second and a second a second

L6 ANSWER 59 OF 98 C. ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 42
1195/386879 CAPLUS FULI-TEXX
1147.4074
Selective Stabilization of DNA Triple Helixes by
Selective Stabilization of DNA Triple Helixes by
BENDAG, Christophe, Ngylayon, Chi Hung; Mergny,
Dean-Louis; Sun, Jian-Sheng; 8f sagni, Emile;
Garestier, Therese, Helene, Claude
Laboratoric de Biophysique, Museum National d'Histoire
Naturelle, Paris, 75231, Fr.
Journal of the American Chemical Society (1995),
117(41), 10012-19 AUTHOR(S):

CORPORATE SOURCE:

CODEN: JACSAT, ISSN: 0002-7863 American Chemical Society Journal English

LG ANSWER 60 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 43
ACCESSION NUMBER: 123:104203
TITLE: 223:104203
TITLE: Reacher 2000 Security of the crystal structure of a gal proper of faguent; implications for protein-DNA author(S):
CORPORATE SOURCE: Dep. Chem., univ. Manitoda, winnipeg, MB, R3T 2N2, Dep. Chem., univ. Manitoda, winnipeg, MB, R3T 2N2, NC AUTHOR(S): CORPORATE SOURCE: NCT CACIAS Research (1995), 23(11), 2065-73
PUBLISHER: Oxford university Press
LAWGANGE: CORPORATE SOURCE Oxford university Press
LAWGANGE: COMMAND: ESSE CORPORATE SOURCE OXFORD UNIVERSITY PRESS
LAWGANGES.

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

ABSTRACT:
A sequence that is represented frequently in functionally important sites involving protein-DMA interactions is GTG/GMC, suggesting that the time may play a role in regulatory processes. The 2.5 A resolution structure of GCGGGTGG/GCGCGD, a part of the interior operator (01, nucleotides 44 to 449) of the gal operator, co-crystalized with spermine, is described herein. The crystal packing arrangement in this structure is unprecedented in a crystal packing arrangement in this structure is unprecedented in a crystal packing arrangement in this structure is unprecedented in a crystal packing arrangement in this structure is unprecedented in a crystal packing arrangement of these packed DMC and a crystal packing arrangement of the packed DMC and a crystal one have a sequence and the packed DMC and Stacked DMC and some while its backed DMC and stacked DMC and some and the packed DMC and stacked DMC and the packed DMC and the sequence selectivity on the region may be a critical factor conferring sequence selectivity on the example of a crystal structure of spermine with native 8-DMC, which into the mechanics of polyamine-DMA serving as well as possible explanations for the biol, action of spermine.

LG ANSWER 61 OF 98 CAPLUS COPPRIGHT 2004 ACS ON STN DUPLICATE 44
ACCESSION NUMBER: 1296:13676 CAPLUS FULTLER:
1241:110409
TITLE: 1241:110409
TITLE: Petride uncleic acid (PAN): a model structure for the primordial genetic material; primordial genetic material; CORPORES: Dep. 81 cortem. 8, Panua Inst., Copenhagen, Den. 81 cortem. 8, Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 copen. MICROB: 15SN: 0213-4101 cars! promise. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 cars! procedure. Panua Inst., Panua I

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

The authors have recently described a novel **OMA** analog, paptide origin of life. More cast of CMO, which is relevant for the discussion of the origin of life. CPMO, which is relevant for the discussion of the origin of life. CPMO and the consistion of the procession of the origin of life. CPMO and the consistion of consisting consisti

ASTRACT:

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ACCESSION NUMBER: 19945502210 CAPLUS FULTLEXT
111:102110
TITLE: 112:10210
TITLE: 113:10210
TIT

LG ANSWER 63 OF 98 CAPLUS COPPRIGHT 2004 ACS ON STN DUPLICATE 46
ACCESSION NUMBER: 120:137887 CAPLUS FUIT-EXX
TITLE: 120:137887 CAPLUS FUIT-EXX
TITLE: 120:137887 CAPLUS FUIT-EXX
MICROSONICAPEN TO THE INCOMPLEX OF THE INCOMPLEX

ABSTRAL:
ABSTRACON WITH CRADIA BEEN determined by 2D nuclear Overhauser effect. 11 MMR
CCCA.130CTO, 2 MMR
ABSTRACON ABST

L6 ANSWER 64 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 47
ACCESSION NUMBER: 12:225316 CAPLUS F<u>ull-text</u>
TITLE: 12:225316 CAPLUS F<u>ull-text</u>
TITLE: Analyzing DNA complexes by circular and linear dichroism dichroism Prystical Chem., Chalmers univ. Technology, CORPORATE SOURCE: Dep. Physical Chem., Chalmers univ. Technology, SOURCE: Source: JOHNARI OF MORECULAR RECOGNITION (1994), 7(2), 141–55 DOCUMENT TYPE: Full-sish central Review DOCUMENT TYPE: LANGUAGE: ABSTRACT:

Absiliate with many refs. Application of linear dichroism (LD) and CD in nucleic acid research is illustrated by recent results aimed at answering specific scructural many refs. Proceed the selection of selection of the selecti

98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 48
1995:102355 CAPLUS FLIJ-Texx
122:188104
The interaction of intercalators and groove-binding agents with DwA triple-helical structures; the influence of ligand structure; box backbone modifications and sequence wilson, W. D.; Mizan, Shaikh; Tanious, Farial A.; Yao, Shijie, Chem., Georgia State Univ., Atlanta, CA, 30303, USA. L6 ANSWER 65 OF 98 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: AUTHOR(S):

Journal of Molecular Recognition (1994), 7(2), 89-98 CODEN: JWORE4: ISSN: 0952-3499 Journal; General Review English CORPORATE SOURCE: DOCUMENT TYPE: LANGUAGE: ABSTRACT: SOURCE:

Applyment with SG refs. The effects of ligand structure and properties, with the thore more properties, interaction of awariety of well-known groove-binding agents and antiprove dollarges, and more properties, and assistances, and more properties, and more evaluated by thermal metring expts, and mol. modeling. Both methylphosphonate

and phosphorothioate substitutions generally destabilize Dwa duplexes and phosphorothioate substitutions generally destabilize Dwa duplexes were intiplexes. Wolffed duplexes can be strongly stabilized by both grooverent interplated to the strongly stabilized by both grooverent that the large intercal atoms, whereas triplexes are printed against and intercal atoms, whereas the suggest that the tiplex dash atmaining space of the major groove of the contracts with the typing the groover the major groover of the duplexes and plants and plants and plants extending space of the major groover of the duplexes with the typing the groover for the major groover of the duplexes with the typing the groups that in the groover. Converting some of the duplex dereases of observed Im increases for compds such as quinterine and contalyne. Although removal of thomine we groups and addition of should reduce handing of cationic intercal aross; the large difference observed between the pure Ar and the mixed sequence triplexes suggest that they may also have differences in structure and properties.

LANGANGE:

ABSTRACT:

ABSTRACT.

ABSTRACT.

LG ANSWER 67 OF 98 CAPULS COPYRIGHT 2004 ACS ON STN DUPLICATE SO ACCESSION NUMBER: 120:120916 CAPULS FULL-EXE. 120:120916 CAPULS CAPULS

ABSTRACT:

Polyzmide nucleic acids (PMAs) have emerged as useful agents for recognition of single—and double-stranded nucleic acids. Interveside

Hydrogen bonds between the amide carbonyl nearest the nucleobase and chain NH

Moving the amide carbonyl away from the nucleobase to the backbone, and

replacing it with a methylwhe group, results in 2 lacking the stabilizing

hydrogen bond. Oligomers of 2 do not interact with DMA. Modeling

hydrogen bond. Oligomers of 2 do not interact with DMA. Modeling

suggests that 2 displays a more extended conformation than 1, and nucleobase

orientation is discupted in 2 in the absence of a cDMA strand.

Structures for 1-110.cntdot.DMA and ((1-110).c.cntdot.DMA

species spanned by a pyrindine strand (D-10op) were constructed. In the

strand in the major groove of the 1.cntdot.DMA structure, the two PMA strands

form the complementary Wasson-Crick paired strand and the Hoogsteen base-paired

strand in the major groove of the 1.cntdot.DMA structure. The factors suggested to

account for the Exability of this 2.1 complex are (1) a Mydrophobic attraction

between two PAM backbones and (ii) a favorable electrostatic effect resulting

from replacement of a phosphodiester backbone by a neutral peptide backbone.

L6 ANSWER 68 OF 98 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN ACCESSION NUMBER: PREVIOUS BIOSIS FULL-REXT PREVIOUS PREVIOUS PREVIOUS AND THE PREVIO

Microgenotropers and their interactions with DNA: 3.
Structural analysis of the ILL complex of d(GCCAAATTTGCG)-2
and dien-microgenotropen c by 20 kMR spectroscopy and
restrained molecular modeling.
Blasko, Andrei: Erowne, Kennerth A.; He, Gong-Xin; Bruice,
Thomas C. (Exeprint author)
Dournal of the American Chemical Society, (1993) vol. 115,
No. 16, pp. 7080-7092.
Articl ACSAT. ISSN: 0002-7863.
Articl and AcsAT. ISSN: 0002-7863.
Last updated on SIN: 5 Oct 1993 CORPORATE SOURCE: SOURCE: AUTHOR(S):

DOCUMENT TYPE: LANGUAGE: ENTRY DATE:

ABSTRACT:
The solution structures of (CCCAAATTICCO)—2 and the 1:1 complex of dicCCAAATTICCO)—4 will the solution structures of (CCCAAATTICCO)—2 and the 1:1 complex of dicCCAAATTICCO)—4 will discuss the solution structures of GCCCAAATTICCO)—5 have been determined by 1D and 2D 1H MMR spectroscopy and cestrained molecular modeling on the bundred and two resonances for the free DAM and 196 for the solution structures of the GCCCAAATTICCO)—2: complex show that there is an asymmetric type of binding in the A-T-rich region involving five Base pairs (3. A-61-71-81-96-10).

The 1D (DAM inno protons) and 20 (MoESY) spectra of the 1:1 complex show that there is an asymmetric type of binding in the A-T-rich region involving five Base pairs (3. A-61-71-81-96-10).

The proton in the solution of the minor groove with perrole rings of the GCCCAAATTICCO)—2: complex have (i) perrole rings of the GCCCAAATTICCO)—2: complex have (ii) perrole rings of the GCCCAAATTICCO)—2: complex have (iii) perrole rings of the GCCCAAATTICCO)—2: complex have (iv) be a minor discussion of the minor groove with perrole rings of the GLOCAAATTICCO)—2: complex have and along the phosphate backbone, toward the major rings droove and pair with the protonated remainal dimetryl aminor rings of the major groove and pair with the protonated variance from the protonated variance groove and pair with the groove and pair with the

Upon solvation, the length of the duplex increases by 0.1 ANG /bp for both the dodecamer ampared to the case of crystal structures of free DNA and distanycin-complexed DNA.

LG ANSWER 69 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 52
ACCESSION NUMBER: 1193:182108
TITLE: 1193:182108
TITLE: Microgenotropens and their interactions with DNA. 1.
Microgenotropens and TNA. 1.
M

English CASREACT 119:181208 DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GRAPHIC IMAGE:

ASPITACT:

ASPITACATION of the novel idea of employing a pyrrole nitrogen of a tripyrrole peptide minor growe binding agent to carry catalytic entities to the phosphates and major growe to catalytic entities to the phosphates and major growe to catalytic entities to the hopsphates and major growe to catalytic entities to the hopsphates and major growe to catalytic entities of the minor grower to the phosphates and major grower to the catalogue of the parallel of the parallel of the catalogue of the catalogue of the parallel of the catalogue of the catalogue of the parallel of the catalogue of the c

LG ANSWER 70 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
1991-689820 CAPLUS FULL-TEXX
DOCUMESTON NUMBER: 1993-889820 CAPLUS FULL-TEXX
TITLE: INTINCE: INTINCE PROPRESSED CAPLUS FULL SUPPLY STORY AND THE SOURCE: Lab. Chim. Genet., Fac. Pharm., Illkirch, FG7401, Fr.

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SOURCE:
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Usurnal of the American chemical Society (1993), 115(11), 4939-40 CODEN: JACAN; 15SN: 0002-7863 COURTAL ENGLISH CODEN: DACAN; 15SN: 0002-7863 COURTAL ENGLISH

DOCUMENT TYPE: LANGUAGE: ABSTRACT:

As a further step toward the long-term goal of designing enzyme mimics it is reported here that a spermine-listamine conjugate actes as a ligase substitute in enhancing the that a spermine-listamine conjugate actes as a ligase substitute of membrane and the conjugate actes as a ligase substitute of the all ong the BM minor groover floor with a polyvanines sequence according groover floor with a spermine is an ideal webicle to carry the potential and those corally shown that polyvanines and hose corally strong the ministry of the nickt, where proteins and those corally strong the ministry of the nickt, where proteins and those corally act indiazole in the neighborhood of the nickt, where proteins in the first of experiment of spermine-s. (where the spermines the s

L6 ANSWER 71 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: AUTHOR(S):

CORPORATE SOURCE: SOURCE:

98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 53
119:340309
119:340309
Inhibitors of human immunodeficiency virus integrase Fessn, Mark R.; Kohn, Kurt W.; Letcurtre, Francois; Pownier, Vves : Kohn, Kurt W.; Letcurtre, Francois; Pownier, Vves : Webn, Kurt W.; Letcurtre, Francois; Pownier, Vves : Webn, Kurt W.; Letcurtre, Francois; Pownier, Vves : Webn, Kurt W.; Letcurtre, Francois; Pownier, Ves : Kohn, Kurt W.; Letcurtre, Francois; Pownier, Presedings of the National Academy of Sciences of the United States of America (1993), 90(6), 2399-403
200EN: PMASA6; ISSN: 0027-8424,

DOCUMENT TYPE: LANGUAGE:

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Januarde.

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L6 ANSWER 72 OF 98 (ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 54
1933:207741 CAPLOS <u>FUIT-TEXT</u>
DAN JUNE 5007741 DAN STRANG-displacement binding of a thynic substituted polyamide to double-stranded DAN cherry, baritry v.; selecteriovskii, Borris P.; Frank Kamericskii, Maxim P.; Egholm, Michael J. Dansch C.; Moscow, 123182, Russia. Prefer E. Dansch C.; Moscow, 123182, Prefer E. Dansch C.; AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

Consisting of thymines statehed to a mainostrylly livine beakbone bind consisting of thymines statehed to an aminostrylly livine beakbone bind consisting of thymines statehed to an aminostrylly livine beakbone bind strongly and sequence-selectively to adenine sequences of orligourclectides and double-stranded but with the plant of the sequence complished the waston-crick via strand displacement. In which the PNA bound to the waston-crick complementary adenine-containing to double-stranded onk and sequence secrification. This model may provite a extruded in a virtually 1st signe-stranded conformation. This model may provite a general way in which to obtain strand conformation. This model may provite a double-stranded but by waston-crick hydrogen-bonding base—conformation, and it is the paramount to rigorously establish this such results from microscopy are reported. Furthermore, it is shown that binding of the double for synthetic but-binding liquids. Hurthermore, it is shown that binding the double for synthetic concentration (only a small portion of but mols.) Is exceptionally which is fromediated at low sait concentration ingle rain 40 mm), is exceptionally with the connection of the small portion of but middle.

LG ANSWER 73 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 55
ACCESSION NUMBER: 1183:207735 CAPLUS E<u>ull-text</u>
1183:207735 CAPLUS E<u>ull-text</u>
1183:207735 CAPLUS E<u>ull-text</u>
1183:207735 CAPLUS E<u>ull-text</u>
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1183:207735

LANGUAGE:
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LANGUAGE:
ASSTRACT:
The ability of polyamines to displace the minor
The ability of polyamines to displace the minor
The ability of polyamines displace monspecific DAA
MAS investigated. Polyamines displace monspecific DAA
MAS investigated. Polyamines displace monspecific DAA
phosphate-bound Hoeckist in a charge-dependent fashion, but show very little
ability to displace the high affinity binding of Hoeckin in the
****minor*** growe of DAA. This high affinity
****minor*** growe DAA. This high affinity
****minor*** growe hinding due bereal! These studies
****minor*** growe very weakly, if at all, relative to known
****minor**** growe binding agents.

L6 ANSWER 74 OF 98 CAPUES COPYRIGHT 2004 ACS on STN DUPLICATE 56
ACCESSION NUMBER: 1992-119902 CAPUUS FUI]—LEXI
DOCUMENT NUMBER: 1171:19902 CAPUUS FUI]—LEXI
DOCUMENT NUMBER: 1171:19902 CAPUUS FUI]—LEXI
TITLE: Raid of Substituted tripyrrole peptides that complex with DNA by both selective minor-groove binding and electrostatic interaction with the minosphare backbone C: Ne; Houng Yau; He, Gong Xin; COPE, VIEW. Univ. California, Santa Barbara, CA, SOUNCE: United States of the National Academy of Sciences of the DOCUMENT TYPE: CORP. PMASA6; ISSN: 0027-8424, 89(5), 1700-4 LANGAGE. COMPANY.

DOCUMENT TYPE: LANGUAGE: GRAPHIC IMAGE:

—CONH CONH CH2) 3NMe2 Me CONH ACNH-

I, R=(CH2)_{II}N[(CH2)3NMe2]2 II, R=Me

ABSTRACT:

The structures of the compds. (Ct. n = 3-5) that incorporate (i) the tripyrrole peptide of the minor-growd-binding distance;
class of compds. and (ii) planne ligands that extend from the
class of compds. and (ii) planne ligands that extend from the
arrived as by computer-graphics designing by using the x-ray structure of
distancy. A complexed in the minor growde of distancy in an allowed for
improved stability in solution and desire synthesis and purification, which itself
of distancy in a sale by the synthesized, and the interaction
of distancy in a sale in the minor growde
of distancy in and with calf thyms the poly(de-dd),
poly(de-dd), poly(di-dd), planta is superally growde
of distanced polydid do), planta is superally growde
of promoted polydid do). BR222 superhelical plasmid bMA were
sudder. Shaling of I occurs in the minor growde
of promoted polydid do), but whiching and site specificity
of many because of favorable electrostatic interaction of
finages, the tenactive of the ording and site specificity
of mages, the tenactive of the solution and site specificity
of mages in the reactive of the solution and site specificity
of the some planta is the specificity
of the solution and solution and the superior shall be selected the superal shall be selected the specific shall be selected the superior of the solution of the specific shall be selected the superal specific shall be selected the superal shall be selected the superal specific shall be selected to the superal specific shall be selected the superal specific shall be selected to the superal specific shall be selected the superal specific shall be selected to the superal specific shall be selected to the superal specific shall be selected to the specific shall be selected to the superal specific shall be selected

ACCESSION NAMBER: 1392,54374 ACRUS FALL-LEAST NAMBER: SUPPRINTE SUPERINT SUPERINT NAMBER: SUPPRINT NAMBER: SUBJECT NAMBER: NAMBE

L6 MANSWER 76 OF 98 CAPLUS COPYRIGHT 2004 ACS on STH DUPLICATE 58

DOCUMENT NUMBER: 11931-201833 CAPLUS EJI]—IEEXI

DOCUMENT NUMBER: 115.01893 CAPLUS EJI]—IEEXI

TITLE: TIME TO THE TOWN THE GOOD TOWN THE GOOD THE GOOD THE TOWN THE GOOD THE GOOD THE TOWN THE ABILITY (1991), 266(10), CODE TOWN THE ABILITY TYPE: 100 THE ABILITY THE GOOD THE TOWN THE ABILITY THE COURTS. OF SPENMING THE ABILITY THE ABILITY THE ABILITY THE COURTS. OF SPENMING THE ABILITY THE ABILITY THE COURTS. OF SPENMING THE ABILITY THE ABILITY THE ABILITY THE ABILITY THE ABILITY THE COURTS. OF SPENMING THE ABILITY THE ABILITY THE COURTS. OF SPENMING THE ABILITY THE ABILITY THE ABILITY THE COURTS. OF SPENMING THE ABILITY THE ABILITY THE ABILITY THE ABILITY THE ABILITY THE COURTS. OF SPENMING THE ABILITY THE

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THE GENUINE ARTICLE: RC234
TILLE:
TOCATION OF SPERMINE AND OTHER POLYAMINES ON DNA AS
REVEALED BY PHOTOMEFRITY CLEAVAGE WITH
CONNERY OF AUTHOR:
SCHALD BY PHOTOMEFRITY CLEAVAGE WITH
CONNERY OF AUTHOR:
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SOUNCE:
THE SEGMENT:
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L6 ANSWER 79 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN
ACCESSION NUMBER: 1191.18471 CAPLUS FULL-EXE
DOCUMENT NUMBER: 114:184747 CAPLUS FULL-EXE
TITLE: TWO new photoaffinity polyamines appear to alter the helical twist of DNA in nucleosome core particles helical twist of DNA in nucleosome core particles and the first batches, swark, Richard A.: Morgan, James E.; CORRORATE SOURCE: Basu, Hirak, Marry R. Galifornia, Davis, CA, 95516,

Biochemistry (1991), 30(16), 4009-20 CODEN: BICHAW; ISSN: 0006-2960 Journal English

> DOCUMENT TYPE: LANGUAGE:

ABSTRACT:

A no new protocoaffinity derivs. of polyamines have been synthesized by

the reaction of spermine or spermidine with We 4-azidobenzimdate. The new

the reaction of spermine or spermidine with We 4-azidobenzimdate. The new

condens wagered in resonance spectroscopy. The spermine derivative is NaLABA-spermine

(condens wagered in resonance spectroscopy. The spermine derivative is NaLABA-spermine

(conspared with the perent polyamine, spermine. In CO expts.,

ABA-spermine was capable of producing a B - Z transition in

poly(demisc) as a concentration of 30 um compared with 5 µm required to

produce the same effect with spermine. On the other hand, ABB-spermine

((azidonitrobenzoy)) spermine; spermine. On the other hand, ABB-spermine

((azidonitrobenzoy)) spermine; spermine. On the other hand, ABB-spermine

of ytechtosis, and a concentration of 30 um compared with 5 µm required to

produce the same effect with spermine. On the other hand, ABB-spermine

((azidonitrobenzoy)) spermine; spermine, on the other hand, ABB-spermine

of ytechtosis, and the spermine is a potential thibition of ornithine

and ABA-spermine and ABB-spermine is a potential thibition of contition at 0.12

method of the spermidine at proceeding a potential proventy, year take

of spermidine or spermine. In contrast, ABB-spermine was considered both

positions of the sites varied; the AAB-spermine and ABA-spermidine

of spermidine on the form and this observation, rogether with the effect

of spermidine on the CD of DAM in nucleosome core particles; implies

of spermidine on the CD of DAM in nucleosome core particles; implies

of spermidine on the ABA-spermidine reagents.

In that polyamines alter the Melical twist of DAM

nucleosome core particles. The ABA-spermine and Spermidine

of spermidine on the ABA-polyamines are offered as

general-purpose photoaffinity polyamine reagents.

L6 ANSWER 80 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 60
DOCUMENT NUMBER: 11477184 CAPLUS Full-text
11477184 CAPLU

DOCUMENT TYPE: COODEN: BICHAW: ISSN: 0006-2960

LANGAGE: Fuglish

ABSTRACT:
The interaction of a sym. naphthalene diimide with alkylamino
sequence polymers, polytid(4-7)12 and poly[d(6-7)2]. Spectrophotometric
sequence polymers, polytid(4-7)12 and poly[d(6-7)2]. Spectrophotometric
sequence polymers, polytid(4-7)12 and poly[d(6-7)2]. Spectrophotometric
both sequences, although the guanne-cytosine binding constant was
20-25-fold larger than the adenine-thymine birding constant was
the general so all concentration on the binding equilibrium showed that the
diimide forms 2 ion pairs in its complex with both polymers, as expected for a
simple dication. Stopped-flow kinetics expts. demonstrated that the diimide
both assocs. and dissocs, from bw. more slowly than classical
withercalators** with similar binding consts. Adal. of salt
concentration effects on dissociation kinetics rate consts. (kd) revealed that slopes in
log day vs. logNaal plots were only, sappx. 50% of the value obtained for
classical dicationic intercalators that have both charged groups in
the asme groove. These kinetic results supported a threading for
""sintercalation"" model, with 1 charged diimide substituent in each of the
rembhavis grooves rather than with both side-thains in the same groove, for
methanism for dissociation of a threading complex, only 1 ion pair was broken; the
methanism for dissociation of the dimide. This sequential release of ion pairs made
the dissociation of the dimide. This sequential release of ion pairs made
the dissociation of the dimide. This sequential release of ion pairs made
the dissociation of the dimide a very clear method for distinguishing
classical from tireadiation from groove-linding modes.

L6 ANSWER 81 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

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11990:131987 CAPUS Full-text
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AUTHOR(S):

CORPORATE SOURCE: SOURCE:

CODEN: BICHAW; ISSN: 0006-2960 Journal English DOCUMENT TYPE:

ABSTRACT, and the plation intensities exist among guanines in a large variations in alkylation intensities exist among guanines in a surple variations in alkylation intensities with cheenterapturical alkylation agents such as nitrogen markeds, and the substituent attached to the reactive group can impose a distinct sequence preference for reaction. In order to understand there the structural and electrostatic factors which determine sequence as extructively of alkylation reactions, the effect of increased ionic exequence as experience of alkylation reactions, the effect of increased ionic exequence as the polyame are separated with a modification by and netropsin, Lephonylalanine mustered (Low guantaning and the polyame are separated with a modification by an expectific chemical closuring strength and the cationic Dawage technique for Daw sequencing for Lepam and UM, and spermine (10 closurage technique for Daw sequencing for Lepam and UM, and spermine (10 w), nistamycin hintited the alkylation was less dependently inhibited the alkylation (10 µW), and spermine (10 µW), and spermine (10 µW), say all (100 mM NaCl), ethidium (10 µW), and spermine (10 µW) and alkylation was less extength and netropsin (100 µW) and part of the cationic defect of the did the cationic did stampers and netropsin with a modification with a modification for as was most satisfied to hermanegement and angues and manifered that sequence the part of the part of the effects on the alkylation pattern of DMA in the major groove.

LG ANSWER 82 OF 98 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. ON STN ACCESSORIA MARKER 1990:175623 BIOSIS FULL-LEXT DOCUMENT NUMBER: PREVENCES 1990:175629; BAGS-192793
TITLE: TITLE: WITTH FLAMANCER-BINDING PROTEIN EBP1 NE-KAPPA-B WITTH FRAMENCER-BINDING PROTEIN EBP1 NE-KAPPA-B WITTH FRAMENCER-BINDING PROTEIN EBP1 NE-KAPPA-B WITTH FRAMENCER-BINDING PROTEIN EPHANCER. CLARK L. [Reprint author]; MATHENS J. R; HAY R TOWN OF BIOCHEM MICHOSEOU, UNIX ST ANDEWS, FIFE, KY15 9AL SOUNCE: DOCUMEN TYPE: CODEN: JOYLAM ISSN: 0022-538X. 64, NO. 3, pp. 1335-1344. PILC. SCORENT TYPE: ATTICLE PROTEIN TABLE PROTE

DOCUMENT TYPE: FILE SEGMENT: LANGUAGE: ENTRY DATE:

ENGLISH Entered STN: 10 Apr 1990 Last Updated on STN: 10 Apr 1990

LG ANSWER 83 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 63
DCCMEN NUMBER: 11990:25609 CAPLUS FULL-EXX
TITLE: 113.126049
TITLE: 113.126049
TITLE: 113.126049
AUTHOR(S): and analogs to DNA: relationship with binding mode and analogs to DNA: relationship with binding mode AUTHOR(S): benny, w. A.: wakelin, L. P. G. SCH, P. G. Anti-Cancer Drug Design (1990), S(2), 189-200
DCCMENT TYPE: DUTING ACIDEA, ISSN: 0266-9536
LANGAGE: ENGLISH COPPER, C

ASTRACT:
The Kinetics of association and dissociation of DNA complexes of the artitume agents mitoxantrone, ametantrone and related 1,4-bis(
"**alkylamino*** Janthraquinones have been determined by stopped-flow

spectrophotometry, in order to study relationships between structure, kinetic of americal and biol. activity. Variations in the structure of the side chains of americal and biol. activity. Variations in the structure of the side chains complexes, but remains that little effect on the kinetic stability of the moment of the structure of magnitude more slowly, suggesting an important to le for the two hydroxyl groups on manitude more slowly, suggesting an important to le for the two hydroxyl groups on the more proposed and an important to le for the two hydroxyl groups on the more proposed and any structure of the state special of stability of the law with the choractic states prepared in studies with the more stability and stability of the law with the homosolymers of stability as second on studies with the kinetic mechanism is a mixed parallel foseugentail one, with expensively stories of the class stress in both homosolymers and matural both. The results suggests guidelines for the design of refer class.

86 L6 ANSWER 84 OF 91 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 64
1989:510787 CAPLUS FULLI-TEXT
11.1.2.10787 And To Strain The DAM interactions:
1980ence specificity and DAM bending for a simple signerer specificity and DAM bending for a simple fluence.
1980ence Strain Surt G.; Pattabiraman, Nagarajan; Marton, Laurence Strain, Med., Univ. California, San Francisco, CA, 94143, USA, Med. (Pin. California, San Francisco, CA, 94143, UNIV. CA, PORTON CA, COMB. (1989) 17(17), 6883-92
1001713 AND CARRENT CORPORATE SOURCE: AUTHOR(S):

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L6 ANSWER 85 OF 98 G. ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

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113:0027 CAPLUS EJIII CAPLUS EXPERIMENTAL AND
114:0027 CAPLUS EJIII CAPLUS EJII CAPLUS EJIII CAPLUS EJII CAPLUS EJI CORPORATE SOURCE: DOCUMENT TYPE: LANGUAGE: ABSTRACT: The bleomycin-me AUTHOR(S): SOURCE:

The Dienoycin-mediated degradation of DNA is stimulated (amplified) by certain DNA Diriding Computer as Dolyanines, that discort the double helix. Computer modeling studies suggest that discort the double helix. Computer modeling studies suggest that discort the double helix. Computer modeling studies suggest that discort the double helix. Computer modeling studies suggest that por the first interaction results in a bend of pite oil agone helix toward the ""major" groove and enlargement of the minor ""power and enlargement of the minor ""poynamines" both effects being in the order 1 < 2 in These parallel the expt! values of the amplification activities of 1-3 in the blemyclin-mediated degradation of poly(dodc). Ploy(dodc). The amplification """agroove" and blemyclin in the minor """groove, and blemyclin in the minor """groove, and blemyclin in the minor """groove, and plemyclin in the minor """groove, and plemyclin in the minor """groove, and plemyclin the minor """groove" are is proposed. It is suggested that the amplifier-induced conformational changes of the DNA helix increase affinity of the activated bleomyclin complex toward the DNA minor """groove" and bleomyclin complex toward the DNA minor """ an increased efficiency of the bleomyclin-mediated degradation of the helix.

L6 ANSWER 86 OF 98 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN ACCESSION NUMBER: 1988:196058 BIOSIS FULL-text

AdSTRACT.

Protonated polyamines are among the most efficient cations that
Protonated polyamines are among the most efficient cations that
induce the left-handed Z-form in certain polyuncleotides. It is not known,
however, whether these cations bind to specific sites on Z-sequences
in solution Potential polyamine binding sites were studied by
measuring the effects of polyamines on the binding of purified loss to different regions of the Z-helix and by mol. mechanics
modeling. The specific binding of arrit-Z-buk and by mol. mechanics
modeling. The specific binding of arrit-Z-buk and anti-Zspermine concentration of the effect of polyamines on the antibody-nucleic
spermine concentration in the effect of polyamines on the antibody-nucleic
spermines and sa different for 1gos with different specificities for
various determinants on the Z-helix. Polyamines specific sites
probably at or near the interface between the major convex surface and the
phosphate backbone, most likely by compering with the antibody binding
site(s). In contrast, polyamines have no effect on other anti-Z 1gos
site(s). In contrast, polyamines have no effect on other anti-Z 1gos
site(s). In contrast, polyamines have no effect on other anti-Z 1gos
site(s). Encourast, polyamines have no encourage and the
groups at the C-5 position on the major convex surface of the helix; the
enhancement may be related to charge neutralization. These data suggest the
existence of a specific binding site(s) for polyamines on Last Updated on STN: 21 Apr 1988
Salts and polyamines have a variety of effects on the physical properties of DwA, including stabilization against themal melting.
We wished to gain greater insight into the mechanism of this stabilization by ascertaining its effect on the dynamics of base opening and closing reactions, as measured by NME.
Since the binding of speemidine (3+) is influenced by salt, and since speemidine may act as a base caralyst in proton exchange reactions, we have undertaken a study of salt and base catalyst in proton exchange reactions, we have undertaken a study of salt and base catalyst in proton exchange reactions. We have undertaken a study of salt and base catalyst in DWA.
The selective longitudinal NMR relaxation rates of the hydrogen-bonded imino protons of the Self-Complementary octadeoxyribouncleotic deGeavaric, monitor the rate of the base-catalyzed chemical exchange of these protons with solvent water.
Webseave. pair topening reactions of the DMA duple was constanted to the decementation of key, the rate constant for the dissociation of the octameric duplex into single strada.

In addition of kop, the rate constant for the localized opening of individual a significant was constanted of secondarion with the base catalyst triskuptoxymethyllyminomentane allows the determination of kop, the rate constant for the localized opening of individual a significant malysis of this dependence, it is determined that 0.6 ± 0.1 sodium in a malysis of this dependence, it is determined that 0.6 ± 0.1 sodium in a greement with previous results, no measurable salt dependence is found for kop, which is equal to about 100 s.1 at 25°C.

Under low-salt conditions, the triviant cation speemidine decreases the rate process. Krúdies... Basu, Mirak S.; Feuerstein, Burt G.; Zarling, David A. Siarier, Richard H.; Warton, Laurence J. Sch. Wed., Univ. California, San Francisco, CA, 94143, PROTON WWW STUDY OF THE BASE—PAIRTNE REACTIONS OF PROTON WWW STUDY OF THE BASE—PAIRTNE REACTIONS OF EXCHANGE.
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BOOKHLIN W H REPORT ARTHOF): BLOOPFEELD V A
DEP BJOCHEM, UNLY WINN, ST PAUL, MW S5108, USA
Biochemistry, (1988) VOI. 27, No. 4, pp. 1184–1191.
CODEN: BICHAM. ISSN: 0006–2960. Recognition of Z-RNA and Z-DNA determinants by polyamines in solution: experimental and theoretical USA Journal of Biomolecular Structure & Dynamics (1988), 6(2), 299-309 CODEN: J85DO6; ISSN: 0739-1102 Journal process. procesace spermidine(2+) acts as an extremely effective catalyst of imino proton exchange. LG ANSWER 87 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 65 DOCUMENT NUMBER: 11039;71469 CAPLUS Full-text TITLE: ENGLISH Entered STN: 21 Apr 1988 Last Updated on STN: 21 Apr 1988 AUTHOR(S): CORPORATE SOURCE: SOURCE: CORPORATE SOURCE: DOCUMENT NUMBER: TITLE: DOCUMENT TYPE: FILE SEGMENT: LANGUAGE: ENTRY DATE: DOCUMENT TYPE: LANGUAGE: AUTHOR(S):

both Z-DWA and Z-RWA in solution These binding lighoucleotide crystals. The exits have some similarity to those observed in disjonucleotide crystals. The exits have some similarity to those observed in disjonucleotide crystals. The exits and according to the interaction of spermine that the was supported by more medical mother interaction of spermine that 2- and 8-forms. The crystal coordinates of spermine-containing for spondlessing but the S- and Z-forms of spermine-containing for modeling studies. The potential energy of spermine-containing for modeling studies. The potential energy of the storm was much less your blue that that of spermine bound to the major grower of the 8-form. In the presence the Z-form-spermine completes were facured over the B-form. Thus, both theor, and exptl. studies indicate that polyamines can be specifically recognize Z-helical determinants in solution as well as in crystals.

LG ANSWER 88 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
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DOCCASSION NUMBER: 108:13439 CAPLUS Full-text
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CORPORATE SOURCE: 108:10439 CAPLUS FULL-TEXT
CORPORATE SOURCE: 108:1

LIG ANSWER 89 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 66
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LG ANSWER 90 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1985:189197 CAPLUS FUIL-TEXT DOCUMET NUMBER: 103:188197

quantitative correlations of biological activities of dactinomycin analogs and methorrexare derivatives with reabhake weals o'l unenda, A.; Gupta, S. P. Prabhake was recommendated a first rechnol. SCI. Prlant, 33031, India Azzwelmittel-Forschung (1985), 35(7), 1030-3 CODEN. ARZWO; ISSN: 0004-4172 Dournal 15h AUTHOR(S): CORPORATE SOURCE: SOURCE: DOCUMENT TYPE: LANGUAGE: GRAPHIC IMAGE: TITLE:

STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

***Position: activities, namely the ability to bind with DNA
****Position: activities, namely the ability to bind with DNA
********Positions and the in vitro inhibition of human turbul of certain c-7- and N2-substituted dactinomytin (actinomytin of And) analogs I (All = H, Alkay, etc.; R2 = HR, Alkay, etc.) and the growth inhibitors activity of a series of side chain substituted methortwate (ATA) derives I (R = H = INH, OH, alkay, alkylamine: Alkamine etc.) and III (R = H, alky), etc.) against a law onese lavelema cells in culture and their binding affinity for dividorifolate reductase (OHFR) [9002-03-3] enzyme extracted from this system and consistents. In case of MIX derivs, not only the side chain substituted analogs but certain ring substituted analogs, too had their different activities dependent upon the van der Waals volume of the substituted analogs, however, the size of the substituted angest however, the size of the substitute of acposition produced a graster effect on the activity than that of prosition. Based on the correlating equations obtained, the derivation or the van der waals sylope of interaction might involve either hydrophobic interaction or the

L6 ANSWER 91 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 67
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COMENT TYPE: CORRISTANT: 155N: 0022-1287

LANGAGE:

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RASTALCT:
Small hear-stable, acid-soluble proteins (HASP) were isolated from B. subtilis
small hear-stable, acid-soluble proteins (HASP) were isolated from B. subtilis
small hear-stable, acid-soluble proteins (HASP) were isolated from B. subtilis
they be acid active and entire and entire and entire and entire and entarted PAM. Four major species, of 8.5,
12.3, and 28 kindalton (Kola), were found. Their affinity for DAM
was moderate as measured by the sensitivity to ionic strength of the
nuclease of Protein complex (O.10-44 MASC). Paralla digestion by micrococcal
nuclease of 80-120 Base pairs. The data reported here
indown of 80-120 Base pairs. The data reported here
indown of 120 Base pairs. The data reported here
was accomparation of the probaryorit cognome.

ABSTRACT.

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ABSTRACT.

Beries of novel compds. in which a 9-acridinyl nucleus is linked to a psoralen nucleus in the 5- or 8-position via polyamines were prepared and examined. Their reversible and irreversible infinion to DNA.

and DNA. Crosslinking on irradiation with LW light (320-390 nm) were and DNA. Examined These compds. were all less efficiently photoreactive than 8-methoxypsoralen (1), both in crosslinking and photobinding to the 5-position 400-fold that of 1. Compds. In which the linker was attached to the 5-position.

in porsales a showed smaller crosslinking and photobinding efficiencies and larger ratios between photobinding and crosslinking than those of psoralens attached in the 8-position. This strongly indicates that the 9-substituents of the acridines are oriented roward true minor groove. Flow 9-substituents of the acridines are oriented roward true minor groove. Flow 9-substituents of the acridines showed that the acridine moiety whereas the psoralen moiety in case was clearly intercalating. This conclusion was further monories apported by viscometry studies which also strongly indicated

At DNA concentrations below 1 µW-phosphate, the kinetics of condensation and of de-condensation are comparable in rate.

Intermolecular DNA contacts may compete with, and slow down, intermolecular condensation, equilibrium data for transition midpoints are obtained in either life, equilibrium data for transition midpoints are obtained in either life, and or reverse direction at sufficiently low is reached in either life, satisficiently low phase diagrams for condensation (plots of log [Co2+ (MH3)6] vs. log [Maa] or log [Mg2+] at the transition midpoint) have been obtained from studies of the condensation by Na+ or Mg2+.

These plots have a slope of +1 when either Co2+ (MH3)6, spermidine (3+) or spermine (4+) is used to induce condensation of DNA charge has been neutralized, as calculated by Manning's theory.

Shown by Wilson and Bloomfield, as lope of +1 is consistent with DNA condensation occurring when a critical fraction of DNA charge has been neutralized, as calculated by Manning's theory.

Was additional results are presented, which bear on the problem of toroidal was toroidensation, eachly are readily at high temperatures.

Restriction fragments as short as 400 base-pairs form appearance to the intramolecular condensation, which are similar in diameter and DNA.

Metaphase chromosome structure in polyamine (spermine or spermidne)—containing buffer as compared to that in control (Tris-ca24) buffer spermidne)—containing buffer as compared to that in control (Tris-ca24) buffer spermidne)—containing buffer spermidne)—containing buffer spermidne)—control of the control bufgestion of chromosomes treated with polyamines indicated decreased excessibility in these prepns, as compared to the control periodicity, resp. 1 and microscopic studies indicated a smaller diameter for the created peparation. The decreased accessibility of DAM reflects a higher compaction and more condensed state of DAM in the metaphase chromosome. The polyamine fefter, due to a trighter binding to chromatin as compared to EAP binding, evidenty alters (compacts) known.

CODENS TYPE: Arrice Arr

reaction.

The kinetics of condensation are slow in the forward direction, in the time range of emit of h. and slow as the DNA concentration is increased. Reversal of condensation by Na+ or Mg2+ occurs more rapidly, in s to min, and the transition midpoints are essentially independent of DNA.

A thermodi. anal. of the bending free energy of DWA, initiated proviously, was extended. The lonf-catengid dependence of the persistence proviously, was extended. The lonf-catengid dependence of the persistence length of DWA in aducols RacT could be understood by postulating: (1) a rigid-roof 60 DBASE-pAir unit and (2) a meg. contribution of repressatic neutralization of the phosphate hapeg, the latter term alone survived and bending became a spontaneous process. It was demonstrated from a theor. and. of the lonic-strength dependence of the rate of denaturation of every and the provest strength dependence of the rate of denaturation of curvature. ADV A; beyond this limit, the steeply rising repulsive energy of tightly packed across dominates the bending free energy. Therefore energy of tightly packed across dominates the bending free energy. Therefore to curvature, boughnut forms of DWA induced by the not beyond, this barrier to curvature, boughnut forms of DWA induced by the middles to actionic spermidne, spermid or mixts of MQ2+ and ***polyamines*** possessed maximum curvatures, corresponding to the radius of the hole in the middle, in the range 1/150-1/200 A. L6 ANSWER 95 OF 98 CAPLUS COPVAIGHT 2004 ACS ON STN DUPLICATE 69
DOCUMENT NUMBER: 1980:71278
TITLE: Thermodynamic stability theory for DNA doughnut shapes induced by charge neutralization
CARPORATE SOURCE: Dep. Cfem., Rutgers, State Univ., New Brunswick, NJ, 800RCE: DOCUMENT TYPE: CORROLL SIEMAA, 155N: 0006-3525
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LG ANSWER 96 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 70
ACCESSION NUMBER: 3777-479870 CAPLUS F<u>ull-rext</u>
DOCUMER: 4 mechanism for the entrapment of DNA at an ari-water
TITLE: A mechanism for the entrapment of DNA at an ari-water
INTELE: A mechanism for the entrapment of DNA at an ari-water
ANTHORY TOWNS TOWN

Addition of the intercalating dye quinacrine to a low-ionic-strangth sites addition of DNA in quantities sufficient to saturate the high affinity sites solution of DNA in quantities sufficient to saturate the high affinity sites in the DNA results in the accumulation of the DNA at the adsorption of DNA to uniterated c-coated electron microscope grids touched to the solution surface to the ritercalating dyes can also bring about this entrapment. For they possess a side arm large enough to occupy one of the DNA grooves and unwinding of the DNA helix brought about by the entrapments of the DNA helix brought about by the entrapments for the entrapment process. Spendidine, a simple polyamine that will exempt of the DNA minor groove but that has not intercalating chromophore, also causes this entrapment. Even in intercal arting chromophore, also causes this entrapment of DNA lovel of surface entrapment. A model for the entrapment of DNA at the air-water interface is proposed in which 1 (or both) of the hydrophobic growes of the DNA more garoves a surface-artive agent as a consequence of the association of various ligands and charge neutralization.

Absilvation may occur as the result of a gap in one of the two chains of frameshiff mutation may occur as the releating set of bases. There may then be a misparing of bases at the releating set of bases. The synchesis frilling the gap with an addition or deletion of a base or bases. The frequency of frameshiff mutation is expected to be highest in longer stretches of identical bases. A particulal mediating is proposed for frameshiff mutations in page 14. It is also proposed to the major frameshiff the mutations in page 14. It is also proposed that acridines intercalated between base pairs in the regions of most proposed to the proposed in the half life of the Headons of those regions and thereby increase the probability of synthesis occurring before the regions melt our. Profiavine and similar acridines are highly mutagen in page 14 but are not mutagenic in exercis and other organisms. It is suggested that the mechanism of mutagenesis in bacteria and other organisms. It is suggested that the mechanism of mutagenining and new synthesis would occur at the site of a summangening mutagenining and new synthesis would occur at the site of a summangening that mutagening the site of a suppared mutagening the mutagening of the proposed for phage 14 mutagening mutagening the site of a suppared mutagening 98 CAPLUS. COPYRIGHT 2004 ACS on STN
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67:60901 LOUGH; FUGUTA, VORSHIM; Emrich, Joyce;
Streisinger, George; Osdaa, Vosshim; Emrich, Joyce;
Newton, Judit; Fuguta, Akira; Terzaghi, Eric;
Inouve, Masayori Eugene, OR, Usia, Orio, or Gregon, Eugene, OR, Usia, Orio, or Gregon, Eugene, OR, Usia, Orio, orion Bate 1966; 31, 77-84
CODEM: COHEACZ: ISSN: 0091-7451
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2025: BIPMAL ISSN: 0006-3525.
General Review; (Literature Review)
English
English S Nov 1998
Last Updated on SIN: 5 Nov 1998 INDEX 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:59 ON 09 JUN 2004 FILE 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:42 ON 09 JUN 2004 ABSTRACT:
Last updates on SIN: 3 Now 1990
sequence—specific polyamides that bind in the minor
sequence—specific polyamides that bind in the minor
sequence—specific polyamides that candidates for antibiotics,
stancer chemother appearers and transcriptional antagonists.

In a papearer when the progress of structure—based design of minor
of process in with DAV, to the effective linked polyamides
of precription with DAV, to the effective linked polyamides
A thorny under standy.

A thorny of polyamide specificity is also reviewed, introducing
methods to determine the optimal strategies for targeting a given DWA
sequence within a genome of competing sequences. (FILE 'HOME' ENTERED AT 08:49:08 ON 09 JUN 2004) d his full L6 ANSWER 97 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: AUTHOR(S): CORPORATE SOURCE: SOURCE: DOCUMENT TYPE: LANGUAGE: ABSTRACT: DOCUMENT TYPE: LANGUAGE: ENTRY DATE: SOURCE:

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BASER (2A) PAIR OR WINDR(2A) GROOVE OR WAJOR(2A) GROOVE) copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PD) field datable for records bublished or updated in Chemical Abstracts afree December 5, 1990). Unless otherwise indicated in the original publications. The CALLENGTON is the COPYRIGHTED in the ORDER TOPER FILE 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 09:04:57 ON 09 JUN 2004 SESSION -59.60 This file contains CAS Registry Numbers for easy and accurate substance identification. This file contains CAS Registry Numbers for easy and accurate substance identification. EMBASE has been reloaded. Enter HELP RLOAD for details. SINCE FILE ENTRY -59.60 SINCE FILE ENTRY 332.98 355 TERMS FILE BIOSIS FILE COVERS 1969 TO DATE. CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT FROM JANNARY 1969 TO DATE. SET DETALL OFF
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